

Maclean's

Canada's Weekly Newsmagazine

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SPECIAL
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1999

The Ninth Annual Ranking

Universities

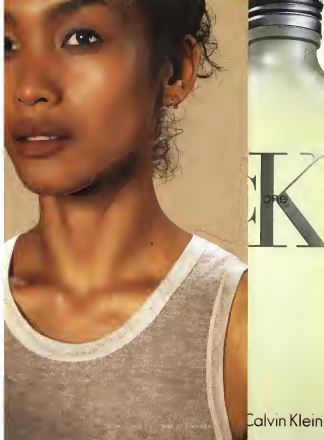


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Cover

Universities 1999

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Editor

Rankings are an annual labour of love

Some people have likened it to the *Forbes* 500 list of top companies or, God forbid, *Sports Illustrated's* swimsuit issue. Students and parents buy it as record numbers. Others have said it means nothing, or worse. Love it or hate it, *Maclean's* annual ranking of Canadian universities is back for its ninth season.

The University of Toronto tops the Medical-Dentist category, followed by Queen's and UBC, which are tied for second place. In the Primarily Undergraduate category, Mount Allison came first for the eighth year in a row, followed by Acadia and Trinity. The big change came in the Comprehensive category, where Guelph took over the top spot, while previous winner Simon Fraser and Waterloo tied for second.

The cover package is not just a bunch of numbers. Associate Managing Editor Ann Downer Johnson, overseeing the project for the eighth year, says the state of universities today is an ongoing story. Education Editor John Schofield examines efforts to enrich learning. Another article looks at the important role of sports in recruiting students.

Downer Johnson began work on the current edition last January with an intensive round of consultations with university officials. Debate, negotiation and compromise have been hallmarks of the ranking project since the inaugural issue. *Maclean's* has continued to fine-tune the ranking criteria in response to submissions by the universities. This year, the survey expanded the number of CEOs and corporate executives surveyed for the reputational category, with attention to regional balance.

The 15-page questionnaire was sent out in June, and responses were received by late August. Contributing Editor

Mary Dwyer, a viral cog in the ranking machine, then spent eight weeks checking and collating the data. A key part of her assignment was to challenge institutions to document any information that deviated sharply from previous years. Once the data was verified, consulting institutions from McDougall

negotiating with an editorial board to change their measure as the public will think that we are better than others." In contrast, Arthur Stephen, vice-president, university advancement, at Wilfrid Laurier, notes that for parents and students the ranking "tells their desire for comparative information on our institu-



Members of the *Maclean's* team behind this year's university ranking issue, seated (from left), Virginia Taylor (copy chief), Dwyer, Downer Johnson, Schofield; standing, David Wright (copy), Don Polkowski (art), Patricia Beble (research), Schofield, Sue Ferguson (research chief), Eric Legge (art), Buffy Barrett (production)

Scientific Ltd. performed the final calculations and produced the ranking. In the end, though, the annual ranking could not happen without the co-operation of the universities. They display a remarkable level of candour and a commendable willingness to open themselves to public scrutiny—even when aware within their ranks have urged otherwise.

Prof. Reuben Kaufman of the biological sciences department at the University of Alberta urges a boycott. He writes that "it deprives me to witness our presiden-

tials" and cites *Maclean's* willingness to respond to critics.

The package, with its special graphic requirements, was expertly designed by Associate Art Director Gisèle Subitini. In all, a team of more than 20 dedicated professionals, from sports experts to writers, worked to produce the issue—one that once again is bound to stimulate debate in an area that is crucial to Canada's future.

Robert Lewis



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The Mail

The M-word

Am I the only one who is sick and tired of the overuse of the word "millennium"? ("Millennium countdown," Cover, Nov. 12) What is so compelling about this portable word that makes it dominate the media like no other 10-letter word has done in the history of the English language? Why has it taken hoards of advertising and the media to assure people awareness but don't care.



England's Millennium Dance allegical

virtually all uses of The Word refer to the year 2000, which is, of course, erroneous. That does the imitation value even higher. Please, no more!

Henry Liss, Edmonton

I'm sick and tired of people who constantly pour out that the third millennium will start on Jan. 1, 2001, being

Letters to the Editor

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dismissed with terms such as "pariahs." Anyone who gives the matter a moment's thought realizes that the forthcoming New Year's Day is the beginning of the last year of the current millennium, and not the first day of the next. If, as I suspect we all prefer to be, we are concerned about teaching numerology to our children, how do we justify our deliberate and stubborn insistence on a clearly wrong notion?

Michael Wilson, The Royal Astronomical Society of Canada, Toronto

You left out the huge number of people who will be celebrating the millennium countdown at work. The military is on call, as will be everyone who works in any kind of information technology support and many people who work in banks or anywhere the finance-related. You rounded surprised that so few people were travelling. It's not because we can't afford it, or that we wanted it's not safe. It's because we'll be at work, making sure your power is on, your phone works and your e-mail works. Happy New Year to you, too.

T. K. Mackay, Halifax

As a sky diver, I had to chuckle over your assurance that "it is possible to blanch a ride on a sky diver's back to glimpse the rising sun a full 15 minutes before its rays reach land anywhere." You must have been referring to a tandem sky dive where the instructor or jump master is buckled to a passenger so that he or she is free-falling directly beneath the jump master.

Mike Womersley, Burlington, Ont.

Truth and courage

I'm appalled by the continuing attempts of Canada's law establishment to suppress debate over the issues

American intrusion

Your Oct. 18 issue takes a happy view of the president of the United States having put Lucien Bouchard "in his place" ("An airing of the dirty linen," Canada, Oct. 18). The Bush administration, in which I served for four years as deputy assistant secretary of state for Canadian affairs, believed with equal conviction in the desirability of continued Canadian unity. However, we steadfastly assured any bodybuddy urge to pour our views "The *Insider*" (a title for which I modestly claim authorship) was we assured for a Canada strong and united, but we shall never intervene in the internal affairs of our sovereign neighbours. The current American president has graciously chosen to express views favouring one faction in a friendly foreign country over another. Is American intrusion, however benign in intent, really good for Canada or, for that matter, the United States?

Robert B. Pines, New York City

Maclean's issued its excellent cover story on Bill Reid ("Trade secrets," Cover, Oct. 18). My father, George Norris, is one of the artists who was quoted in your story. Neither he, nor to the best of my knowledge, any of the other artists who granted interviews for the piece sought our magazine. All they did was answer the questions they were asked to the best of their ability—often with great reluctance. They do not deserve to be publicly insulted—or have their motives or competence questioned—for having had the courage to tell an uncomfortable truth.

Alexander Marks, Montreal

Your coverage of the work of Hilda and Bill Reid and the justification printed in the following issue ("The art world goes on the attack," The Forum, Oct. 25) glossed over the enormous physical disabilities his body suffered as Parkinson's disease progressed. It was privileged to be part of his amazing staff during the late '50s and early '60s and watched the courage to which this brilliant man was subjected. It was a miracle that he was able to envision and use

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technology, so you can play DVD movies or connect your digital camcorder to create your own pro-quality home movies complete with special effects.

In other words, you get everything you expect from iMac. The computer hat makes amazing things amazingly simple. For the full story, visit www.apple.co.uk. Think Different™

Notes

Edited by Tanya Davies

Fire and brimstone filmmaking

At the North American premiere of *Dogma*, its writer and director Kevin Smith stood up in front of a Toronto International Film Festival audience to introduce his controversial religious satire. "Well, the roof hasn't fallen and lightning hasn't struck, so I guess we're OK in the eyes of the Lord," Smith was referring to his year-long battle to convince church leaders and movie executives that *Dogma*, which has been accused of being anti-Catholic and anti-faith, is, in fact, the exact opposite. Although the church takes a bit of shtick, says Smith, "it is affectionate shtick, not flat-out mockery."

An indie darling based on his past movies, *Clerks*, *Chasing Amy* and *Malibu*, Smith is entering new ground with *Dogma*. Besides the controversy, it was his first time working with a big budget and young A-list stars, including Matt Damon, Ben Affleck, Chris Rock and Ottawa native Alan Morissette, who plays God. The hot cast, though, presented its own set of problems. "First, we lost Ben to *Shakespeare in Love*, and then he and Matt had to go pick up their Oscar. Rock was still out on *Lethal Weapon 4*," laughs Smith. "Suddenly, it was like, 'When did this happen?' The last few flicks people slept on my

Dogma (left) and *Affleck* as homicidal angels in *Dogma*: a religious satire

couch, we got up and made the movie."

But more than just scheduling made *Dogma* hard to film. Even before shooting started, the Catholic League for Religious and Civil Rights began publicly attacking the production company, Miramax Films, and its parent, The Walt Disney Co., for backing an immoral picture. The heads of Miramax, Jonathan Harvey and Bob Weinstein, dunned Disney from the film by buying *Dogma* from Miramax using their own money. Still, more problems could ensue once

Dogma opens on Nov. 12. It includes two homicidal angels, sex-crazed prophets and a Skull-Ball-obsessed God. It even has a "Catholicism 101" campaign that changes the crucifix image of Christ to the Buddy Jesus because, "Christ didn't come here to give us the willies." While the Catholic Civil Rights League of Canada has attacked the film, Suzanne Scorsone, director of communications at the Archdiocese of Toronto, believes that the "bargaining exploration of religion through film, whether one likes the outcome or not, is a hopeful sign."

The Web site began in a reaction to what Eggers believes is the "good-enoughness" approach to mainstream magazine writing he encountered while working at *Esquire*. Instead, he craved the freedom he had when still an independent publisher. "A magazine putting me on staff was like a girl thinking she can make a guy go to straight," he says. "It just couldn't work."

McSweeney's success online is translating to an increase in paperback sales circulation has grown from 2,500 in



Eggers, a novelist, success online and off

1998 to 7,000 for the current issue. And Eggers and his magazine are winning notice in mainstream magazines such as *The New Yorker*. Ironically, the quality magazine editors praise—McSweeney's frivolity and elevation of the pure written word—are the very things Eggers believes they would never put into print. That leaves him the person size of wretched prose, something he would not have any other way. "Outside of flagellating myself and not leaving the house," he says, "I have a lot of fun publishing stuff that wouldn't get published elsewhere."

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Opening Notes

Explorer

The age of digital cameras

Five years ago, digital still photography was still in its infancy. Now, the technology is improving so quickly that a camera that looks good in June, just in time for summer vacation, may be outdated by the time Christmas arrives. "Anything that's been on the shelves longer than six months is old in this business," says Andrew Patrick, sales manager at Toronto-based Vivitek Ltd., which sells itself as Canada's largest digital photo store. In fact, change is occurring so quickly that many experts now wonder how long film will last. Sooner, like Eddie Chung of Aides Camera on Yonge Street in downtown Toronto, use film and digital cameras co-existing, like ovens and microwaves, as complementary products for many years. Others seek to state: "I don't know where film is going to be in five years," says John Donovan, who sells both types of cameras.

For now, film is safe because it still yields a superior five-by-seven-inch print, the staple of the consumer market. But digital photos are getting better because manufacturers keep packing more pixels, the tiny dots that capture colour, on their CCDs—the device that record images and transforms them into electrical charges that can be stored on removable flash-memory cards. Most manufacturers include an eight-megabyte memory card, capable of storing about 110 low-resolution images, with the camera. The cards can be transferred to a personal computer and the images manipulated endlessly—backgrounds can be moved or colours altered—and images can be used in Web sites or attached to e-mails. Digital also has other attractions. Most of the cameras come with built-in liquid crystal display panels to act as a screen to see images as they shoot. And the majority have a playback feature, which allows a person to review on the LCD monitor the pictures



Cloning: lower prices and cheaper photography

they have taken for the purpose of erasing those that are unsatisfactory.

Below is a selected buying guide to digital cameras grouped by pixel count, which determines the resolution or quality of a photo.

LOW RESOLUTION 1 million to 1.5 million pixels

Kodak DC215 (retail price: \$599) and Kodak DC215 Millennium 2000 (retail price: \$749) The DC215, Kodak's entry-level digital camera, is a compact product that will fit into a shirt pocket. Both come with one-million-pixel CCDs, which is low by current standards and can mean grainy rather than crisp photos. The differences in the two models begin with the looks—the Millennium 2000 is gold-coloured while its lower-priced cousin is silver. The basic DC215 comes with a four-megabyte memory card, again low by the standards of the moment, but it can store up to 54 images of average resolution. The Millennium is sold with a removable eight-megabyte card, which can hold up to 115 pictures.

Fuji MX-500 (retail price: \$599) and Fuji MX-600 (retail price: \$799) Both these cameras are light, compact, attractively designed and come with 1.5 million pixels. The MX-500 has a lens equivalent to those on standard 35-mm film cameras, and the MX-600 has a zoom comparable to a 35-mm-to-105-mm lens. Both come with built-in flash, meaning users cannot attach their own units. The

playback feature allows users to view their photos either one at a time or up to nine simultaneously. There is also a zoom playback in which the image can be enlarged four times and part of it recomposed on the LCD monitor.

Canon PowerShot A50 (retail price: \$799) The 1.3-million-pixel A50 is noteworthy because its size, 103 mm by 68 mm by 37 mm, and its weight, just 260 g, make it, barely, the world's smallest and lightest digital camera. It comes with a built-in zoom lens and motor drive, always an expensive addition to a 35-mm camera, which allows continuous shooting at a rate of one frame per second.

Agfa ePhoto CL50 (retail price: \$1,000) Users can talk to this 1.3-million-pixel camera, feeding it caption information such as time, place and subject, which will be recorded digitally and can be played back when the image is displayed on a computer screen. It also comes with a built-in prism designed to capture sunlight and conserve the batteries used to run the camera.

Minolta Diimage EX Zoom 1500 and Diimage EX Wide 1500 (retail price: \$1,000 each) The difference between these 1.5-million-pixel cameras is in the lens. The Zoom can bring subjects up close with its range of 38 mm to 115 mm, and the Wide shoots everything in wide-angle at the equivalent of 38 mm. Minolta has also built the CCD into the lens, meaning that when a new device with a higher pixel count becomes available, users need only replace their lens, not the entire camera.

MEDIUM RESOLUTION 2.1 million pixels

Nikon Coolpix950 (retail price: \$1,500) Quality of image, ease of use and the black magnesium body have made the Coolpix950 a top seller this fall, according to several leading retailers. It comes with a built-in zoom, which can be converted to a macro-lens for close-ups merely by clicking on a digital screen displayed on the LCD monitor. In macro mode, users can

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Opening Notes

Canon PowerShot S10 smallest



Olympus C-2500 (left), Fuji AXE 2900 Zoom, magnified image



take pictures of small objects from two centimeters away, while other cameras cannot get closer than four centimeters. Another unique feature is a "best shot selection," which allows the camera to choose the sharpest image from a series of consecutive shots of similar subjects.

Canon PowerShot S10 (retail price \$1,000) Virtually the same size as the PowerShot A50, the S10, launched in late October, ensures that Canon will retain the "world's smallest" title for now. It includes many of the standard features found in digital cameras, such as automatic white balance in which the user dials on an icon to indicate whether the picture is being taken in bright sunlight, under cloud cover or fluorescent light and the camera adjusts the shutter speed to account for such conditions. But the S10 is one of the few cameras capable of using IBM's \$799 micro-drive memory card, which can store up to 500 low-resolution images.

Sony Cyber-shot DSC-F55 (retail price \$1,199) Other manufacturers are using standardized square memory cards as image storage devices, but Sony utilizes a device called the memory stick, which resembles a piece of chewing gum. The memory stick can be used in Sony photo accessories such as photo printers, but cannot be used in any other manufacturer's camera. As well, the Cyber-shot contains a digital zoom, meaning an image can be enlarged only on the LCD screen. A user cannot zoom in on a subject while taking a picture. Therefore, a subject shot from 100-m away will look as though it was taken from that distance, and if enlarged on paper, will be grainy.

Ricoh RDC-5000 (retail price: \$1,299) This camera is equipped with a 38-megapixel sensor more than that can be switched to macro mode for closeups in which it is nearly as good as the Nikon Coolpix590. It can focus on an object just four centimeters away. The Ricoh's motor drive is slower than some of its competitors—it shoots one frame per second—

but it produces higher-resolution images. Unlike most other digital cameras, the RDC-5000 contains both a built-in eight-megabyte memory card and a port for inserting portable cards. This can be a useful feature for someone taking pictures while on vacation because the camera contains reserve storage capacity when the portable memory card is full.

Fuji AXE 2900 Zoom (retail price \$1,400) The Japanese manufacturer's flagship camera, the AXE 2900 has an external bracket allowing users to connect that to a flash unit, which may be brighter or more versatile than a built-in flash. The camera comes with a 35-megapixel-to-105-mm telephoto lens, but it also includes digital zoom capabilities, which means an image can be magnified 7.5 times for viewing on the LCD panel prior to shooting, a feature that can be used for checking facial expressions or lighting.

HIGH RESOLUTION 2.5 million pixels

Olympus C-2500 (retail price \$2,499) Olympus is the first manufacturer to break the 2.5-million-pixel barrier. Designed for professionals and serious amateurs, the C-2500 produces images that are sharper than ever, with richer colors and finer contrast, according to experts. More important, it means the quality gap between digital and film photography continues to shrink.

In fact, the strides made in digital cameras since the start of the year have convinced many commercial users, such as companies that produce retail catalogues, and wedding photographers, to switch from film, says Vianiki Parikh. And consumers are showing greater interest in the new technology, says Donovan. "Some days, I get 20 inquiries about digital and 10 about film," he says. "Digital is definitely the new kid on the block."

D'Arcy Joshi

Tips for a Better Healthstyle

From Hal Johnson & Joanne McLeod's best selling book, *Body Break—Our Guide to Healthy Living*

Healthy Eating Tips

- Whether you are a vegetarian or not, you should include areas such as beans, chick-peas, etc., in your diet 2 to 3 times a week. They are packed with good things such as B-vitamins, calcium, iron and fibre.
- The advice of many nutrition experts is to eat fish 2 to 3 times a week. Eating fish has been associated with a reduced risk of heart attacks. And yes, canned tuna and salmon packed in water count as servings.
- Main sources of vitamin E are high in fat (i.e., peanuts, sunflower seeds, almonds and vegetable oils). Include these in your diet but do so in moderation.
- In the cooking process, heat and water destroy some of the vitamin C and beta-carotene so eat at least some of your produce raw. To maximize nutrient losses, steaming or microwaving cooking are the best methods.



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Opening Notes

Explorer

Putting pictures online

A popular use of digital cameras is to create electronic family photo albums on a personal computer. Pictures can be inserted into prepping cards that are designed on-screen, they can be sent by e-mail to relatives and friends elsewhere, or used in Web sites. But what happens to pictures captured on photographic film? They can be left to languish in a traditional photo album, or they can be converted to digital images on a scanning device and join the electronic age.

Over the past year, entry-level scanners have fallen in price from the \$900 to \$1,000 range to as little as \$120 for an Agfa ScanScan. Computer manufacturer Hewlett-Packard Co., as well as camera companies such as Olympus, Minolta and Canon, all produce moderately priced scanners aimed at the consumer market. And there are many cheaper clones available, which often incorporate companion purchased from the brand-name computer.

Flat-bed scanners, the most common format currently available, are small enough to sit on a desk top and resemble a miniature photocopier. Users lift the lid and place the object to be scanned face down on a glass plate. But rather than create a paper copy, the scanner transmits an image to a PC, where it is displayed on-screen. Almost anything flat—maps, pages from books and magazines, even coins or medallions—can be scanned, making the device useful for students who need to incorporate text and images into school projects. Dual-purpose scanners are used the same way as flat-beds, but can also convert images from a film negative to digital. All that technology isn't cheap though: they start at \$1,000.

D'Arcy Jazish

Preparing Leaders FOR A NEW AGE

Leonardo da Vinci would be proud.



The iconic logo of Renaissance College, an idealized blend of classical de Vinci and modern computer graphics.

the new millennium. "Our hope for a more civil society lies in our youth," says Terry Haggerty, dean of Renaissance College. "We are modeling our intellectual resources to help students make a positive difference in the world."

Drawing on the distinctive strengths of UNB's two-campus, one-university system, Renaissance College combines an interdisciplinary undergraduate curriculum with internships in the global community and hands-on research projects on social issues and public policy.

"Renaissance College is an intensive program," says Haggerty. "Students will be carefully selected based on academic performance, demonstrated leadership potential, their record of volunteer and community service and the diversity of their backgrounds and skills in art, sci-

ence, musical, athletic and cultural endeavours." The participants will represent a cross-section of traditional-age and mature students, from New Brunswick, the rest of Canada and beyond.

Preliminary inquiries from prospective students suggest interest will be strong. UNB President business student Mandy Anagnost defines leadership as "a quality that many are in search for, personally and professionally. That's why I think the Renaissance College program seems like such a wonderful learning experience."

UNB's two campuses are well-suited to the provision of leadership studies. The Saint John campus, opened in 1964, has focused recently on international education substantially diversifying its student body and adding international components to many of its degree programs. New links with international institutions, such as Beijing Concord College, promise many opportunities for UNB students to study or work abroad.

De la Fondation campus, which opened in 1928 but traces its roots to the founding of the province in 1784, the focus has been on educational technology and multimedia. Networked smart classrooms and a professoriate tuned into the benefits of Web-based instruction and the capabilities of the Internet are helping to ensure students receive a state-of-the-art education.



▲ On UNB's Fredericton campus, Concord's world-class Renaissance College program is the popular with students.

▼ Study leadership at UNB's open house in Saint John campus. Leadership courses in an online setting.



Whether they pursue their leadership studies on UNB's larger, historic campus in Fredericton or on its more intimate, urban campus in Saint John, Renaissance College students will be exposed to a multitude of perspectives, with courses taught by UNB faculty, visiting professors and community leaders. Teaching staff will be selected on the basis of their willingness and ability to enter into a new paradigm as mentors, synthesizers of knowledge, and architects of a learning-centered curriculum.



Students themselves will be actively involved in assessing their own learning experiences. Planned courses include Model, Ethical and Legal Aspects of Leadership; Comparative Study of Cultures and World Regions; Human Science: Technology and Society; Power of Images and Images of Power; Mathematical and Economic Approaches to Problem-Solving; Citizenship and Community Issues; plus innovative features to help students integrate their learning experiences. Students will also have course offerings from the many excellent and varied existing programs on each campus.

Learning will take place in three main ways: in small seminars, online through an interactive conversation with a community of scholars, and through annual summits.

The focus on responsible citizenship is paramount, and students will be expected to interact extensively with the community. Working individually and in teams, students will develop a community project or respond to a community need involving a minimum commitment, for example, of 10 hours per week for 12 weeks.

The community has embraced this aspect of the program. Steve Olson, general manager of Enterprise, Saint John, explains, "Encouraging leaders is a critical component of our economic development strategy. The university is demonstrating that its priorities and focus reflect both the expectations of the community and a rapidly changing global environment."

Renaissance College graduates will receive a degree in interdisciplinary leadership and a minor in a disciplinary area. A Leadership Option: A Leadership Minor and a Leadership Certificate to be taken jointly with another degree are also in the planning stages.

UNB's leadership graduates are certain to fill a need in today's job market. "It appears that in the language of UNB's Renaissance College 'leadership' equals 'entrepreneurship'—something that is in almost supply in business today. This program could be of enormous benefit to our company and others like it whose products it is people," says Peter Gilbert, partner and creative creative director of SDC Communications Inc. in Sackville, N.B.

UNB received a grant of \$1.875 million from the J. W. McConnell Family Foundation to develop Renaissance College. It was one of only three projects funded in the foundation's initial competition for strategic investment in Canadian higher education in 1999.



▲ Renaissance College's dean of Renaissance College helping students become leaders.

Dean of UNB's Renaissance College Leading the Way

Q: Why the name Renaissance College?

A: "Renaissance" describes an individual of many accomplishments and wide interests. A Renaissance person can distinguish critically between good and bad, even when he or she may not be considered a specialist in any one area of knowledge. Wouldn't it be nice if our leaders had these qualities?

Q: What is leadership?

A: An extremely complex concept. To be a leader, you must have followers, and leadership is the capacity to lead. You may be a leader in one instance, a follower in many others. Leadership involves being both a leader and a follower, bringing forth the best from yourself and from others in envisioning or pursuing worthy goals. Leadership is the process of influencing the actions of an individual, group, or collective toward goal achievement.

Q: Can we teach it?

A: Yes. We can learn to develop our leadership abilities. People have the capacity for leadership if they are provided with the opportunity for interdisciplinary learning about leadership, and opportunities to learn through leadership experiences.

Q: What will this interdisciplinary program do for students?

A: They will learn to lead with imagination and courage, to communicate with openness and confidence, to blend what they know with their abilities, to have an insatiable appetite for learning, and to be at home with themselves, books, paintings and computers. They will be engaged with questions of community, citizenship, service and obligation. They will be selective individuals ready to meet the challenges of tomorrow with insight and innovation.

Q: What do leadership students prepare you to do after graduation?

A: We see our graduates as prime candidates for post-graduate studies in professional programs such as law, public administration, business administration or medical fields.

Perhaps what is most important, they will be prepared to make a positive difference in their communities. Many agencies need better leadership and will seek out Renaissance Leaders. We think our graduates will be in demand because of their attributes.

Q: How can students, parents and agencies find out more about Renaissance College?

A: Contact the Terry Haggerty or Ken Coates, dean of arts at UNB Saint John.

Terry Haggerty

Dean of Renaissance College

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PO Box 4400, Fredericton, NB A1B 4X6
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Dean of Arts

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Phone: (506) 444-6540 Fax: (506) 444-5411
e-mail: coates@unb.ca

www.unb.ca/renaissance



▲ UNB's Renaissance College graduate has paid for people business. (left to right) Coates, Ken Coates, SDC

The Renaissance College interdisciplinary leadership program provides:

An understanding of leadership theory and practice in multiple contexts and cultures.

A commitment to partnering with our communities for service learning and to conduct research, engage in dialogue and formulate viable solutions to issues.

Breadth of interdisciplinary knowledge associated with the humanities, natural sciences, social sciences, and fine arts.

Depth in a discipline or professional area.

An experience of experimental forms of education to enhance learning.

An opportunity to enhance the physical, emotional, spiritual, intellectual, and social aspects of personal well-being.

A defined approach to meeting knowledge-based and experiential learning outcomes.

A Bachelor's degree in interdisciplinary leadership. A Leadership Option in combination with another undergraduate degree is also planned.

A wide selection of electives.

Opportunities to study leadership on UNB's large, historic Fredericton campus or its more intimate, urban Saint John campus.

Increase summer modules for courses, as well as domestic and international internships, which reduce the length of the degree program from the typical four years of study to three years plus two summers.

An international experience designed to foster multiple cross-cultural perspectives on issues and a multilingual perspective on language and communication.

Financial assistance for summer modules to ensure that the program and summer seasons are accessible.

Community-based resources to provide learning in a practical context, and to share their special expertise.

A learning-oriented approach facilitated by faculty and community mentors engaged in a challenging and meaningful program of study.

▲ Interdisciplinary UNB's Renaissance College students will be exposed to a multitude of perspectives, with courses taught by UNB faculty, visiting professors and community leaders. Teaching staff will be selected on the basis of their willingness and ability to enter into a new paradigm as mentors, synthesizers of knowledge, and architects of a learning-centered curriculum.



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Opening Notes

Double Take



A master artist returns

Canadian wildlife artist Glen Loates approaches visitors to his studio in Richmond Hill, Ont., with his eyes averted and his voice so low it is almost inaudible. Shaking hands, he whispers: "Hi, I'm Glen." And then he chuckles. Clearly he like to discount the unsuspecting. And that is exactly what his new art will do once his book, *Dwellers of the Deep* is published next year. The work was inspired by a 1985 trip more than 1,6 km below the surface of the Atlantic Ocean off the coast of Bermuda with the *Bites of Jane* author Peter Bendley and Canadian ocean explorer Dr. Joseph Macfarlane. It is Loates in his wildlife films have never seen, but grossly beautiful enormous fish with gaping jaws and eyes the size of pea daisies, giant squid and human-like creatures.

"The monsters could be real," says Loates, who is known for his realistic portraits of wildlife. "I have created a new life form inspired by actual deep-sea fish." And with their creation, at age 56, after suffering two severe injuries, Loates has come full circle.

Growing up in Toronto, Loates liked to draw fantastic creatures, until his mentor, landscape artist Fred Bejden, encouraged him to change direction. So, for more than 30 years, starting with his first showing at Toronto's Royal Ontario Museum at age 19, Loates has built a worldwide reputation drawing whales, lions and blue jays. His painting of an American bald eagle was presented to then-President Ronald Reagan in 1982, and still hangs in the Oval Office. Both former prime minister Pierre Trudeau and Prime Minister Philip

Loates still loves wildlife, but now that he suffers from osteoporosis, he doesn't go on field trips as much anymore. Since 1996, he has been deluged by two severe leg injuries that not only sidelined him physically, but



Loates in 1969; and now (top): world fame

sunk him into depression that caused him to quit art drawing. "This month, he is making a contract with his first new wildlife work in three years, a painting of a cougar cub commissioned by the Scarborough Rotary Club in Toronto, to raise money for hospital equipment. He is also selling 21 prints of prints for \$1,000 each. "I think they will go fast," says Loates, who is married with two sons. "Wildlife art attracts more people than any of the paintings by the great masters." Especially art by a wildlife master.

Barbara Righton

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Opening Notes

Passages

Awarded: The Giller Prize for Canadian literature to **Rossie Bernard**, 54, for her first novel, *A Good House* in Toronto. The largest annual prize for fiction in Canada, the Giller awards \$25,000 to the author of the best Canadian novel or short-story collection published in English. Bernard, a freelance-writing teacher and book reviewer based in London, Ont., was shortlisted for the 1994 Giller Prize for her collection *Clubs of Other Senses*.



Died: Canadian ambassador to Spain and Andersen **Anthony Vincent**, 59, who played a major role in helping release hostages taken by rebels in Peru in 1996, of heart disease, in Montreal. Born in England, Vincent moved to Canada when he was 5 and lived in Ottawa, Vancouver and Calgary. He joined the foreign service in 1969.

Died: Former NFL running back **Walter Payton**, 45, of bile duct cancer, in Chicago. His condition had been discovered during treatment for a rare liver disease. Payton rushed a record 16,726 yards in his 13-year career. He retired in 1987 and was elected to the Hall of Fame in 1993.

Died: British actor Ian **Bannen, 71, who charmed film audiences playing an Irish con artist in the 1998 movie *Waking Ned Devine* in a car crash, in Scotland.**

Quitting: Robert **Chisholm**, leader of Nova Scotia's New Democrats. Chisholm is credited with rebirthing his party during five years at the helm, but the NDP was disappointed by a loss of eight seats in last month's election.

Died: Ronald (Luzagwa) **Cross**, 41, whose stylized face became the powerful image of native defiance during the 1990 Oka crisis after collapsing at the end of his shift as a steelworker, in Montreal. Cross

was sentenced to four years in prison on charges stemming from the 11-week Oka land-claims standoff, which started when Mohawks tried to block the expansion of a golf course onto ancestral lands. He made news earlier this year when a police ethics commission ruled that Quebec provincial police used excessive force in arresting him.

Died: Laurence **Deane**, 59, former leader of the Alberta Liberal party and popular mayor of Edmonton from 1983 to 1988, of cancer, in Edmonton. In 1993, Deane's Liberals won 32 of the legislature's 83 seats, their best showing since the First World War.

Died: Former Montreal *Gazette* publisher **Charles Peters**, 82, in Montreal. Peters joined the newspaper in 1929 as a sports reporter, and was publisher from 1956 to 1972.

Diagnosed: Hockey legend **Googie Howe**, 71, with skin cancer, in Detroit. He will have surgery to remove a growth on his left shin later this month in Toledo, Ohio, where one of his sons, Murray, is the head of radiology for three local hospitals.

Leaving: Canadian Olympic distance runner **Kathy Ruster**, 26, for Britain because that country provides better financial support for its runners. A resident of Waterloo, Ont., Scott-born Butler finished fourth at the world cross-country championship in Belfast in March, but had to pry her own way there. She is considered for the British Olympic team.

Rejected: An eight-year contract with the Seattle Mariners worth \$198 million by center-fielder **Rex Giffey Jr.**, 29. He has asked to be traded to a team closer to his family in Orlando, Fla. The deal would have made Giffey, who hit 48 homers this year, the highest-paid player in baseball.

Retired: Journalist **Abraham Rosenthal**, 77, after spending his entire 55-year career with *The New York Times*. A native of South St. Marys, Ont., Rosenthal started as a cub reporter when he was 21, won a Pulitzer Prize in 1960 and was executive editor for nine years, before becoming a columnist.

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Backstage



Anthony Wilson-Smith

Ottawa's odd couple

To better understand Finance Minister Paul Martin, a starting point is his taste in movies. Favorites include *Black Cat* and *The Sundance Kid*—the tale of two bank-robbing outlaws; *Breaker Morán*, an Australian movie about a wartime court martial; *Goldfish*, an Aussie movie about a disastrous First World War campaign beset by Allied command; and *Casablanca*, the Bogey classic about a cynical bar owner who seduces love and his principles. In other words, analyze this: Canada's finance minister gets his kicks from films about social misfits leading the established order. Not to mention that he hates touchy-feely relationship movies: there's none of the Meryl Streep oeuvre in the video library at the Martin household.

Then, there is Jean Charest, whose favourite hobbies are mostly competitive. He is an unusually enthusiastic golfer and longtime hockey fan who, as biographer Lawrence Martin noted, was renowned as a youth for his win-at-all-costs tactics. He has a very sophisticated taste in art and classical music, and a unique way of combining his interests: he likes to watch football on Sundays with the sound turned off, and an album by one of his favourite composers playing instead.

Martin was born in Windsor, Ont., and has been a confounding English Montrealer since his early school years—but is far more at ease among Quebec nationalists than is the prime minister. Martin supported the March 1982 accord, and his friends in sovereignist circles, both circumlocutory as anthems to the Prime Minister. Charest has never lived in Montreal—but his views towards his home province reflect the angry perspective of Anglo Montrealers, and his closest advisors come from there. Martin's constitutional beliefs reflect those of mainstream Quebec: the Prime Minister's more hardline stance is just fine with most other Canadians.

Both men are misanthropes. Martin still will not admit that a speech he gave in the 1995 referendum campaign, in which he suggested a *Vote* could lead to a million lost jobs, might have been responsible on paper, but was wound to backfire in public. Charest considered an apology a form of weakness, which is why he never acknowledged his backtracking in reintroducing the Goods and Services Tax after earlier assurances he would "kill" it.

Neither man likes to schmooze. Charest once told an associate—on film of two of his closest political aides—that "in politics, there is no room for friendship" (though a number of "longtime acquaintances" have been given high positions). Martin hates small talk. After a friend once said he should chat more with people to widen his circle, an unrepentant

Martin would occasionally off that person up, about "how's the bloody weather?" and hang up. Still, Martin has many friends in other parties, because he seeks them out. He is a perceptive observer when Kim Campbell's son was on the rise in the Mulroney cabinet, Martin told a friend that, despite all the raves, he chose not to cultivate her "because she is incapable of laughing at herself." Time proved him right.

Both men have formidable tempers. Martin craps in a second, with a high-decibel roar, and a vocabulary so blue it would be the envy of old colleagues in the shipping business. His explosions don't last long, and are quickly forgotten. Charest's anger is more controlled—and lasts longer. He was furious at Quebec Liberal caucus colleagues, such as André Chénier, who didn't support his 1984 leadership bid. But those animosities who backed him in 1990 were forgotten. Those who didn't, such as Francis Fox, weren't.

Christian Bélisle extended debate, and likes briefing enemies in point form, no more than a page long. Martin is a hopeless worrier. Images of heaven is to play down on the hot-mess at his Eastern Townships farm, and read a five- or six-hundred-page economic treatise. Charest, in social terms, is a "little guy from Shawinigan," sprung from working-class, rural roots. He has always resented what he once called "those intellectual snobs in their salons in Outremont and Sillery" (apocryphal communities in Montreal and Quebec City). The feeling is mutual. Until Charest made a small fortune in the private sector between 1986 and 1990, his only income was his salary as a parliamentarian. Martin has always moved in high places because of his father, Paul, one of the Liberal party's legendary figures. Martin wasn't born to wealth, but inherited it from his father, who urged him not to enter politics until he was 40 as he was independently wealthy. Several years ago, a Quebec business magazine pegged his worth at \$28 million.

The two men who lead Canada into the new century are rethorians. The screen on the VCR in Martin's office is invariably flashing 12:00, because he won't know how to sit. Charest, on the rare occasion he sits in front of a computer, barely looks at the screen; he is baffled by the keyboard. Someone who knows both men will once and the day difference is this: Martin likes to do 10 things at once, in the hope none will go right. Charest would rather do nothing—because in that event, nothing can go wrong. The surprise isn't that the two have differences, as the case now over how to deal with a large budget surplus—with the future occupancy of the prime minister's office as a subtext. However all this ends, the real wonder is that they've worked together so closely, so well, for so long.

Stepping Out into the Light

By Bruce Wallace

There is not a hint of self-importance in Beverley McLachlin as she sits, as posed, at the judges' dining table in the most august of Canadian courthouses. On this grey Ottawa morning, two days after the announcement that she is to become the next chief justice of the Supreme Court of Canada, the 56-year-old McLachlin is answering reporters' questions about how she will lead a court that finds itself increasingly enmeshed in controversy: the last guardian of fairness and justice to many a self-absorbed club whose rulings are far too intrusive for the liking of others. McLachlin may be slightly nervous for this morning—she is not known for being a particularly daffodil public performer. But she soon makes it clear that, if she has her way, the McLachlin court will lift its eyes from the lawbooks to take in the world outside its chambers.

New Chief Justice Beverley McLachlin wants a more open Supreme Court of Canada

as well. "You cannot divorce the law from the consequences," she says both hands cutting the air for emphasis. "It is essential to good judging that the rule be sensitive to consequences, and that judges, when they make rulings, give some thought to how they are going to play out."

Those may be welcome words to many of the high court's critics. Although the Supreme Court has escaped some of the approbation Canadians feel towards its national institutions, there is still a wall of complacency that the court is tampering in areas best left to elected legislatures. It rages from Alberta's refusal of the court's decision to wear protection for gay and lesbian inmates to the province's human rights code, to non-aboriginal fishermen on the East Coast, where a recent court ruling to allow an unrestricted native fishery has led to chaos and violence. The result has

been growing frustration that the Supreme Court is out of touch with Canadians, its judges locked in moribund stasis in their Ottawa chambers. It is an image McLachlin would no time in trying to dispel last week. "The law is not the preserve of the judges or a few lawyers," she said. "The law is the preserve of the people of Canada. And it's wonderful that people are interested in commenting on it."

Her engaging candour is a departure from the chilly, defensive persona the court has presented to the public in recent months. Much was made last week of the fact that McLachlin will become the first woman chief justice, but the real significance of her appointment may be in her potential to conduct a makeover of the court's aloof, remote image. Antonio Lamer, the current chief justice whose retirement next January made way for McLachlin, was seen by many court watchers as a bit too aloof with his title—and far too prickly about criticism. McLachlin showed no such tendencies last week. She talked quietly about the importance of her family on her life and work, professing no sense that the new title was about to radically alter her life. And she ducked any temptation to turn the moment of her appointment into high drama. The oil from Prime Minister Jean Chretien offering the job came while she was at her desk. McLachlin smiled. "And I said yes," she said, with an infectious laugh that made it clear the answer required no real reaching.

Critics are happy to talk about the historic importance of McLachlin's appointment. "It was a great opportunity to have, for the first time, a woman as chief justice of Canada," the Prime Minister said in making the announcement. But no one in Ottawa, where McLachlin has long been considered the obvious next choice to lead the court, was suggesting gender got her the job. And while she agreed there was symbolic importance in having a woman at the top of a major national institution, McLachlin did make it clear that gender is not the only perspective she brings to her reading of the law. She mentioned a story from her days as a lower court judge when, while hearing a divorce case, she assumed a



McLachlin on 1990 (above); in 1981 (below): "The law is not the preserve of the judges or a few lawyers"



worried husband that "the fact I was a woman judge would not have any bearing on how I'll rule."

Her attention triggered a rare consensus of praise. "Though quiet and quietly apologetic, she has a fire for the law that burns through the passing rain," says Ottawa lawyer Eugene Melhuish, who is president of the Canadian Bar Association and has known McLachlin since the early 1970s when he was the Supreme Court's executive legal officer. McLachlin's lack of apparent ideology means there is no easy rallying point for critics. "She's eclectic, somewhat unpredictable," says Queen's University law professor Don Souter, commenting on McLachlin's uneven track record on issues such as the rights of the accused in criminal trials. But he adds that McLachlin has a well-deserved reputation as a thoughtful jurist, with

the courage to support controversial rulings and write contentious dissents. Souter cited, in particular, McLachlin's support for the court's 1991 decision striking down aspects of the so-called rape shield law—and allowing a woman's sexual history to be used as evidence, in some circumstances, in sexual assault cases.

McLachlin has also shown herself to be a staunch defender of free speech. In 1992, for example, she wrote for the majority in the *Rainald Zundel* case, when the court struck down a law prohibiting the "spread of false news," which had been said to curtail the Holocaust denial. And she was with the majority when the court overturned Ottawa's ban on tobacco advertising in 1995, ruling it was an unreasonable infringement of speech. "That's the free-speech tradition of

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Canada

the "West coming out," says Stewart.

Certainly the first westerner to head the court since Manitoba's Brian Dickson retired in 1990 will be closely watched west of the Lakehead, where the recent unhappiness with some Supreme Court decisions (especially over native rights) has resulted in the Ottawa-based body being turned as a "foreign court." McLachlin was born in the Rocky Mountain foothills town of Pincher Creek, Alta. She studied philosophy at the University of Alberta in the 1960s, then switched to law, graduating top in her class in 1968. She moved to Vancouver with her then-husband Rory McLachlin, teaching and practicing at a time when, as she recalled last week, "there was no women judges at all." She became one herself in 1981, first on a B.C. County Court, rising with breathtaking speed to be chief justice of the B.C. Supreme Court by 1988.

By the time Brian Mulroney appointed her to the Supreme Court of Canada in 1989, McLachlin was a widow. Rory died of cancer in 1988, and McLachlin's first years in Ottawa were spent juggling her heavy caseload (she is known as one of the court's more prolific writers) and raising her son, Angus, through what friends say were difficult teenage years. In 1992, she married Frank McEwain, an Ottawa lawyer who runs an annual law conference in Cambridge, England. He proposed to her over an airplane touchdown on their way to Cambridge.

At 56, McLachlin could serve on the court for almost another two decades (the court's mandatory retirement age is 75). But the most crucial days may be just ahead. Nothing is as important to a court as its credibility and legitimacy. McLachlin acknowledged last week—something her spouse of a mere open court was clearly designed to address: "I'm not fearful that judges will be adversely affected by criticism," she declared, in a time, she seemed to be saying, to hear the courtroom to show humility at the enormous power judges wield over people's lives. In a time, she said, when chief justice was saying, then the high court let us in a little light.

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Canada

Tax breaks for techies?

Ottawa considers lower levies on stock options

By John Geddes in Ottawa

Almost before the last sign of friction between Finance Minister Paul Martin and Prime Minister Jean Chrétien could flare up into controversy, the flames were being doused. In his annual fall economic update, delivered last week to the House of Commons in London, Ont., Martin vowed to cut taxes with "the same fervour" that he brought to wiping out the deficit. But hadn't the Prime Minister, just a day earlier, remarked wistfully that maybe

new-technology lobby has converged around stock options, said one official close to the finance minister. "It's an issue that we're having a good close look at."

The group spearheading the drive calls itself the Canadian E-Business Opportunities Roundtable. It is co-chaired by John Roth, the influential chief executive of Nortel Networks Corp., and David Prentice, former vice-president of the Boston Consulting Group in Toronto. The roundtable was formed with little fanfare last summer—but at whose direction it is

perplexing Canadian taxpayers demanding for lower taxes should leave the country? Some observers sensed a rift. But the Chrétien and Martin camps rushed to deny any contradiction—and they had a point. After all, Chrétien aimed his bashed message: Canadian firms, low, less or leave—only at the rich Martin similarly argued that tax relief should redress the well-off to the back of the line. "Tax reduction must ultimately benefit all Canadians," he said, "but first it must benefit those who need it most: middle- and low-income earners, especially families with children."

Likewise Martin declared their two alpha males to be in perfect accord. But debate about who should benefit from tax relief is far from over. Martin has learned that Industry Minister John Manley is working closely with a group of business leaders who are pushing for tax breaks tailored for perhaps the highest-flying high-income earners of all: the new generation of Internet entrepreneurs. One of the group's key proposals is to lower the tax burden on stock options, often the main incentive for owners and employees of start-up companies in electronic commerce. Martin is sensitively interested. "The



Manley: a huge surplus and room to consider the options

point of some dispute. "It was created at Manley's request," says roundtable member Gayle Dawson, president and chief executive of the Information Technology Association of Canada. Nor so, responds Jennifer Sloan, Manley's communications assistant, "it's nothing that the minister favoured and it is not repeating to him," she says. Sloan added, however, that Manley met with the group last month, that Industry Canada is picking up the costs of the roundtable's meetings, and that the department's top bureaucrat, deputy minister Kevin Lynch, is a member. Another senior Industry official said Lynch had "unconsciously" the roundtable's formation with Roth and Prentice. Manley may have good reasons to keep

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Canada

Martin's promise to working families makes concessions to the special interests difficult

his involvement low-profile. Last spring, he was widely viewed as being out of step with Martin. Back then, Marley and his associates were scolding the alarm about Canada's lagging productivity—a time when Martin and his associates were trying to downplay concerns about Canada's performance. Marley earned a reputation in the business community for being an aggressive advocate of tax cuts to spur private-sector innovation. For Marley to be associated now with the mainline's lobbying might make it seem that he is, since again, putting Martin on the defensive—before the finance minister has a chance to make up his own mind. But is the more logical from man for

the lobbying effort. He is already an outspoken advocate of tax cuts to stop the brain drain. After anouncing booming, Noranda's latest expansion plans at a news conference in Ottawa last week—with Marley at his side—he gave the first public glimpse of the considerable's stance. He berated the fact that only about one per cent of initial public offerings—the first sale of shares on stock markets—by Internet firms springing up in North America happen in Canada. The vast majority occur in the United States. He cited the spectacular, multimillion-dollar IPO last month of Spacenet Networks Inc., a Chelmsford, Mass., fibre-optics technology firm launched by Indian-born Gururaj Deshpande—who got his start in Canada before moving south in the early 1980s. But had Canada really to create an environment where it is more lucrative for the founders of such cutting-edge companies "to do it here in Canada or opposed to somewhere else."

Martin's promise to put had passed families at the top of his tax-cutting

agenda might make it tough to defend any special tax concessions. But officials say such measures could still find their way into his tax strategy. They point to Martin's promise in the economic update to "ensure that we have an internationally competitive business-tax system." He has room to consider a range of tax options: he projected that Ottawa will have \$95 billion in surplus over the next five years, half earmarked for new spending (at least until the next election, under Liberal policy), and half for tax cuts and debt reduction.

That sounds like a lot, but the broad-based income tax relief Martin is now committed to will be costly. Each percentage-point reduction in the 26-per-cent federal tax rate for those who earn \$29,500 to \$55,140, for example, would cost the government \$1.1 billion a year. Will that be enough left over to help Canada compete with the United States to be home base to e-commerce entrepreneurs? That could emerge as one the hottest issues in the run-up to the next federal budget. ■

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Taking it to the streets

Ontario's Conservative government tabled an controversial Safe Streets Act aimed at banning aggressive kids and aggressive packhandlers in Toronto. Offenders would be subject to fines of up to \$500, repeat offenders could face penalties of as much as \$1,000 or six months in jail. Liberal MPP Michael Bryant called the new legislation the "Sweep It Under the Rug Act" and claimed it would do nothing more than force entering street kids into a life of crime.

Puffers against flu

Health Canada approved Bolora, an inhaled flu medication that is administered through the mouth with a device similar to an asthma puffer. The drug, which blocks an enzyme responsible for spreading influenza viruses in the lungs, is meant to be taken twice daily for five days and has been shown in clinical trials to shorten recovery time from the flu by up to two days.

Honouring war heroes

In a special ceremony in the Senate, Ottawa paid tribute to members of Canada's Second World War merchant marine. Canadian sailors served on cargo ships supplying Europe during the Battle of the Atlantic, suffering heavy losses—and shabby treatment after the war. Merchant mariners did not receive full veterans benefits until 1992, and were not awarded retroactive payments, much less other benefits such as service bonuses or funding to buy homes. Ottawa is currently trying to come up with a benefits package, although Veterans Affairs Minister George Baker said it would not be ready for Remembrance Day as hoped.

Sterilization deal

Alberta took a giant step towards closing the books on its sterilization scandal, announcing an \$82-million compensation package for 247 people who were sterilized against their will. The province has already paid out \$60 million to victims of the program, which was in effect from 1925 to 1972 and resulted in about 2,800 children being classified as "mentally defective" and subjected to sterilization surgery. Some claims are still outstanding.

A killer turns to the courts

Karla Homolka wants her liberty. The former wife of convicted sex killer Paul Bernardo is serving a 12-year manslaughter sentence in Quebec's Jolene Institution for her role in the murders of southern Ontario teenagers Kristen French and Leslie Mahaffy in the early 1990s. But she has launched a Federal Court of Canada challenge of



an August, 1999, decision by the warden denying her temporary escorted release from jail, and last week filed an affidavit to bolster her case. "My application for conditional temporary absence is of crucial importance to me as it affects my liberty, including my right of people and statutory release after eight years of imprisonment," she wrote.

Public outrage greeted news of the court action by Homolka, whose lifetime sentence was the result of a

controversial plea bargain. Bernardo is currently appealing his life sentence, claiming that his ex-wife was scarcely responsible for the murders. Homolka will be eligible for statutory release in July, 2001, after serving two-thirds of her sentence.

Partial victory for a sexual assault victim

In 1982, **Kelly Scaglione** was sexually assaulted as an 18-year-old Canadian Forces recruit. Last week, she won an \$85,000 award against retired master corporal Harold McLean, who pleaded guilty to indecent assault in 1997. But Justice Jean MacFerland of the Superior Court of Justice in Toronto ruled that the Canadian Forces were not liable in the assault. Scaglione, who was featured in *Maclean's* May 25, 1998, exposé on rape in the military, expressed disappointment, saying the Forces should have been held accountable.

On the attack

The Reform party continued an attack on Prime Minister Jean Chrétien's handling of financial matters in his home riding of St-Maurice. At issue was \$1.6 million in job-creation grants that ended up being placed into trust funds. The money was earmarked for two companies that were experiencing financial problems; one firm was sold to a local businessman with close ties

to Chrétien and the Liberals and subsequently received \$1.2 million, while the rest of the money was retained to the government. The Reform party said the trust fund arrangement contravened the federal Financial Administration Act and was illegal. But Human Resources Minister Jane Stewart, whose department was responsible for the funds, and the government had been guilty only of "inappropriate management."

Tragic Mystery

The roller-coaster crash of EgyptAir 990 puzzles investigators—and torments families of the 217 dead

By Andrew Phillips in Newport

Nothing special united the 217 people aboard EgyptAir's ill-fated flight 990. There were babies, teenagers and senior citizens; newlyweds and old married couples; doctors, pharmacists, journalists and lawyers; Christians, Jews and Muslims. Among them were Americans, Egyptians, Syrians, Sudanese and a Chilean—as well as 21 Canadians. Some were going home to Egypt. Others, like Luc Doy of Montreal, were arriving on what they hoped would be a grand adventure to the fabled land of the pyramids. Doy planned to celebrate his 53rd birthday there only two days before the flight; he had talked excitedly about his plans to Yvan Duhaime, president of the Quebec paper company where he worked as staff lawyer. "He was very eager for the trip," Duhaime recalled. "I knew he was very happy to leave."

After Flight 990 plunged into the Atlantic Ocean off Nantuxet Island—just 32 minutes into its journey from New York City to Cairo—families were left to share similar stories of the lives so brutally cut short. Their pain was, if possible, made even more acute by an almost total lack of answers to the confounding questions: what caused the plane to fall out of the night sky? Most air accidents happen on takeoff or landing. But like two other ill-fated commercial flights in the past three years in the same general area, EgyptAir 990 plunged

111 off Peggy's Cove, N.S., last year. The EgyptAir plane, a twin-engine Boeing 767, simply disappeared from radar screens with no sign of an explosion and no last-minute emergency call from the cockpit. The accident, it was quickly revealed, had a faulty thrust reverser on its left engine—but there was no evidence linking that defect to the crash.

Investigators, stung by rampant speculation that surrounded earlier crashes, refused to lend credence to any theory of what might have happened until they gather concrete evidence. That could take many months. Flight 990 went down 100 km southeast of Nantuxet Island, off the coast of Massachusetts, in about 80 m of water—almost three times as deep as the waters off Peggy Cove that swallowed Swissair 111 in September, 1998. The navy used a remote-controlled robot to locate the ping-pong signals of the aircraft's so-called black boxes—the cockpit voice recorder and flight-data recorder that will provide vital evidence about the plane's last minutes. But heavy seas slowed the removal of the devices.

What investigators did know last week was that the plane was on a wild ride in its final moments. It took off from New York's John F. Kennedy Airport at 1:19 a.m. on Sunday, Oct. 31, in calm winds with light fog and rain. At 1:43 a.m., the pilots made their last contact with air controllers in New York as the plane leveled off at 10,000 m.

Eight minutes later, at 1:51 a.m., something went terribly wrong. Radar data collected along the plane's route showed the Boeing 767 began a steep descent, plunging from 10,000 m to 5,100 m in 40 seconds, reaching a speed of about



1,200 km/h—almost the speed of sound in those conditions.

The plane then rose to 7,300 m before assuming its descent to 5,000 m. At that point, investigator John Clark said last week, radar data showed several objects in the sky that were "no longer consistent with a flying airplane." It took two minutes and 40 seconds for those objects to drift down to 550 m, below the lowest radar sensor. That implied that the plane had broken into several pieces—although cautious officials would not say so publicly. At the same time, they said the aircraft's transponder stopped sending out signals at 5,100 m, suggesting that its power supply shut off at that altitude.

None of this, however, explained what happened—or why the jetliner's pilots failed to send any kind of distress signal. For many of the victims' families, that was a special kind of torment. About 300 family members, many from Egypt, gathered in Newport, R.I., where investigators set up their headquarters. Counselors tried to offer comfort, but for many the grief was overwhelming. It struck home when officials told family members not to expect even to receive the bodies of their relatives. The impact of the crash, they said, was so great that only small body parts would be recovered. Several people, widows and last, foremost, Mary Chancy, Canada's consul general in nearby Boston, came to help the half-dozen Canadian families who journeyed to Newport. They were, she said, in "a walking-wounded state. There's a combination of sadness and shell shock." It was the worst

loss of life for Canadians in an air disaster since a 1989 Air Ontario crash killed 24 in Dryden, Ont.

On Saturday, the relatives who came to Newport were taken to a former army base across from the search site. There, they were able to see the wreckage collected so far from the ocean floor, which was housed in two enormous white tents. Not surprisingly, most of the families chose to avoid the bank of TV cameras set up outside the hotel where they were put up. People have different ways of dealing with grief, however, and Steven Elson of Calgary wanted to tell the story of his brother-in-law, Mohamed Farouk. Farouk, a 31-year-old co-pilot with EgyptAir, was returning home on the doomed flight after bringing his wife to visit Elson in Alberta. Elson held up a photograph of the handsome young man in his pilot's cap, and said her name before he'd still alive. "She won't accept that he's gone," said Elson. "I know he's gone, but we need the body. We need it to make sure he is resting in peace."

The 21 Canadians aboard Flight 990 were a disparate group. Salah Adams, 34, was on his way from Toronto to his native Sudan to introduce his parents to his wife, Shadia, 42, and their two young children. All four died. Adams, who came to Toronto in 1991, had become an active member of a Baptist church in the city's east end. The couple worked with new immigrants and planned to visit refugee camps in Sudan during their six-week trip. "It doesn't seem real," said Adams' best friend, Ben Sofia. "I still have a mental picture of



Grieving family members arrive from Egypt, frustration

For relatives, said an official, "there's a combination of stoicism and shell shock"

him, standing there in my driveway asking me what he could bring back from Sudan for me."

Mink and Anos Kogan, a retired couple in their 60s from Pembroke, Ont., also lost their lives. They emigrated to Canada from Leningrad (now St. Petersburg) in 1974, and shared a passion for music and Russian art. Some of the 14 Quebecers aboard Flight 990 were, like Monme's Déry, part of a song group headed for a 15-day sojourn in Egypt. Others included Guy Giffins, 46, a supermarket and acute leader from Shawinigan; sales director Jehanne Lafrené, 44, an avid traveler from



Masson (left) and Benoit (right) looked forward to the trip

Montreal, and retired museum staffer Carole Bergeron, 55, of Montreal, whom friends described as a born adventurer. Agathe Lavie, 65, of St-Hyacinthe, was a voracious reader who spent hours sipping up on Egypt before the long-awaited trip. "When she travelled, she liked to know the customs of other countries," recalled her neighbour Françoise Benoit.

Best known among the Quebecers on Flight 990 were Claude Masson, deputy publisher of Montreal's *La Presse* newspaper, and his wife, Jeanne Bourdais, both 58. Masson, a leading editorial writer in Quebec, won respect from both federal and provincial politicians. Colleagues said he was looking forward to the trip after a particularly hectic month at his paper. Colleagues Lysiane Gagnon recalled how Masson worked late the Friday night before leaving. His assistant had been kept late, too, Gagnon said, and Masson left a note on her desk saying "over."

As families and friends mourned, the mystery of what happened to EgyptAir 990 only deepened. The plane's MidEast destination, not surprisingly, sparked speculation that it might have been stricken by terrorists. That was fuelled by the presence onboard of 30 Egyptian military officers, returning to Cairo after undergoing training in the United States on Apache attack helicopters. Several fundamentalist Muslim groups violently oppose the government of President Hosni Mubarak, but none claimed responsibility last week. More significantly, debris and body parts recovered from the Atlantic showed no signs of explosion.

Other speculation centred on the plane's faulty left thrust reverser, which had been disabled before the final flight as permitted under international aviation rules. The device is designed to de-

fect jet engine thrust forward, and is supposed to be used only on the ground to help back the plane. In 1991, a *Leeds Air Boeing 767-300ER*, the same model as the EgyptAir plane and the one that came off the assembly line in 1989, crashed in Thailand with a loss of 223 lives after a thrust reverser deployed in flight, sending the plane spiralling to the ground. After that crash, however, the U.S. Federal Aviation Administration ordered extensive modifications on thrust reversers on 767s to avoid another such tragedy. The main change was a new lock on the reverser, to prevent accidental deployment in flight. EgyptAir said last week that those changes had been made to the airliner that crashed off Morocco.

At the same time, aviation experts noted that the plane's final flight path did not resemble the out-of-control spiral to be expected from an aircraft suffering from sudden deployment of a thrust reverser. Instead, radar findings showed that it remained on a steady course during its initial rapid descent, then gradually turned to the right as it rose again before its final plunge.

The jet's final path, in fact, was so unusual that some experts wondered whether the crew was in control of the flight in its last moments—or even conscious. The fear plunge and lack of a distress call suggested that the pilots might have been incapacitated by a sudden loss of cabin pressure, or even overpowering hijackers.

All those theories, though, were pure speculation without the evidence at the bottom of the sea. The lack of hard information was frustrating for investigators—and even more so for those who lost relatives. Moe Huran, an Egyptian-born American whose wife, Rihana, died on Flight 990, blinked back tears in Newport as he voiced the questions that so many others share. "Where are the bodies? We have they found? When will we get to the end of this?" The answers, it was clear, will be a long time coming.

With Brenda Burnwell in Montreal and Susan Ok in Toronto

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American experts were quick to scoff at any suggestion of a "Bernini's triangle" of the air in the heavily travelled corridor east of New York City. EgyptAir Flight 990 was the fourth high-profile air tragedy there in the past three years, but causes seemed widely. The earlier three:

TWA FLIGHT 800: A Boeing 747 jetliner exploded in mid-air off Long Island, killing all 250 aboard. After initially blaming terrorism, investigators eventually blamed fuel vapours that ignited in an empty tank, but left open what caused the spark.

SWISSAIR FLIGHT 111: All 229 aboard died after the Boeing 747-300 slammed into the Atlantic off Peggy's Cove, N.S. Authorities said faulty wiring and maintenance appeared to have caused a fire on the flight deck.

JOHN F. KENNEDY JR.'S PAPER AIRCRAFT 121: The glomorous son of a president died with his wife and her sister while he was piloting his own plane to a family event. The aircraft skidded into the water, evidently after Kennedy lost control at foggy Montreal.

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Cyclone hits India

More than seven million people were left homeless after a devastating cyclone swept through the eastern Indian state of Orissa. Authorities estimated the death toll would reach several thousand. Millions are threatened with starvation and disease despite a massive relief effort which the government said would cost \$70 million.

Life for gay-killer

A 22-year-old Wyoming rookie, convicted of beating a gay man and leaving him to die, escaped the death penalty after the victim's parents asked for mercy. Under a plea bargain, Aaron McKinney will instead serve two life sentences for the kidnapping and murder of Matthew Shepard, 21, a college student who was brutally pistol-whipped by McKinney and tied to a fence outside the town of Laramie, Wyo., last year.

The end of privilege

Only 92 of Britain's 759 hereditary peers will now be permitted to sit in the House of Lords. As part of sweeping reforms of the upper chamber announced by the Labour government of Tony Blair, 90 were cleared by their peers in a transitional compromise. Two others will stay on by virtue of the offices they hold.

Looted art returned

The Museum of Fine Arts has returned to the Hungarian government a small 16th-century Italian painting that went missing from Budapest during the Second World War. The museum purchased *The Marriage Feast at Cana* by Giorgio Vasari, now worth about \$900,000, from the daughter of a Hungarian collector in 1962.

China targets sect

Stepping up its campaign against the adherents of a spiritual movement called Falun Gong, the Chinese Communist party held criminal charges against the group's leaders. Followers, who practice a mixture of Buddhism, Taoism and meditation, say the group is not a cult and poses no threat to the Chinese government.

World Notes



Ten years later, recycling the Wall

As the 10th anniversary of the Berlin Wall's collapse approached—the borders between East and West Germany were opened on Nov. 9, 1989—a worker prizes a reinforcing iron bar from a chunk of the Wall's concrete for recycling. Little of the Wall remains, but German officials say there is still a broad gap between the country's east and west, both in living conditions and in outlook.

Australians vote to keep the Queen

After a hard-fought campaign, Australian voters overwhelmingly rejected a proposal to get rid of the Queen and install an appointed president as the head of state of a republic. To pass, the referendum needed an overall majority and majorities in four of the six states. Instead, it was easily defeated in five states, with 55 per cent of the population voting against it. "Let this resolve be celebrated by all Australians as a victory for our democracy," declared Kerry Jones, the monarchist leader.

The proposal called for replacing the

Queen with a president who would be nominated by the prime minister and confirmed by a two-thirds vote of parliament. The prime minister could also fire the president, subject to approval by parliament. But many Australians objected to the idea of an unelected president. The monarchist camp struck a shrewd alliance with a republican group known as the "direct electionists," who campaigned for a No vote over the issue of appointing a president. Supporters of the Queen conceded that the monarchy itself is not popular in Australia, and focused instead on constitutional crises that could arise under the referendum model.

Once again, America the violent

Workplace shootings in Honolulu and Seattle left many Americans wondering if there are any safe places left. A 15-year Xerox Corp. employee allegedly gunned down seven co-workers at a company warehouse in Honolulu. Copier repairman Bryan Uyemura, 40, was arrested the same day and charged with first-degree murder. The next day, a man wearing camouflage gear walked into a home-repair shop in a middle-class Seattle neighborhood and shot four people, killing two. At week's end, police were still searching for the gunman.



Faced with the great expectations of the next generation, Canada has an urgent need to reinvest in its future

Measuring Excellence

By Ann Dawsett Johnston



Of what use is a university education to a young man unless he comes under the influence of a teacher who has achieved greatness?

—Robertson Davies, *A Miter from the Attic*, 1960

It's a dreary September afternoon in Kingston, Ont., one of those befuddling days that fall seems to steal from summer. The occasional maple is turning gold, but the weather is drizzle-hot. Down by the lake, one block from the limestone halls of Queen's University, sailboats drift on the horizon and turners wince between the trees. All of nature seems to be conspiring, turning—a beckoning finger of desiccation. But at 3:55 on this picture-perfect afternoon, Geoff Smith's students are having none of it. Instead, they swarm in determined packs, swelling into the foyer of Esheridge Hall, crumpling themselves, and their knapsacks, into their seats. In sandals and shorts and baseball caps, they focus forward. At 4, there isn't an empty seat in the lecture.

Facing at the front is Smith, readying himself for today's performance. For the next hour and a half, the 58-year-old veteran will entertain and provoke 275 students, cajole them and prod them through *Conspiracy and Descent* as 3D's-Conspiracy America. Part Letterman, part lion tamer, he'll whip them through these pages up through Wampan, and on to *Who*, 1961 draw bloodlines between the shootings at Kent State and the bombing in Oklahoma City. For good

Queen's students Marcus Merion, Stephen Sheffer and Merion Aziz providing



As the echo boom heads to university, faculty are heading out the retirement door

invention, he'll entertain them with the story of how Elvis actually died, face forward on a brown shopping bag. He'll tease them with small helpings of *Dory Feltz* and *The Monkees*. Canadiana and newlyweds' musings of George Wallace and Joseph McCarthy. At times, he'll run controversial, telling them why he quit law school after one semester—"it was the most boring, unnecessary thing next to Queen's commerce." Laughter. And then the whip is out again. "Whiplash! That's what they're here for!" To be curious, to be skeptical of what you see," burles Smith. "That's why you're here, folks. You're learning how to think!"

A winning performance, and a sold-out one, too. In fact, one might argue that this year, History 275 has been over-sold. Just weeks into the school year, it was announced that, for the first time in 31 years, there was no space to accommodate the thousands for the course—materials where groups of 10 to 15 students would debate the lessons of *Waco* and *Wingspan*. "I could teach in Richardson Stadium, but the kids are just getting the hands-on experience they're used to," says Smith, who is now holding what he calls weekly "beer-pi" sessions on Friday afternoons, to maintain the personal touch. "Seminars are sacrosanct, but they're battling with 30 kids—and they're sitting on rudeness. Who's at fault? Perhaps the province for failing to provide resources, to allow us to cope with our students? We're digging into the bare bones of the entire experience."

Welcome to the overcrowded class of 1999, where all across the country, the classrooms are coming home to roost. For the third time in recent history, there's a huge surge in university demand: first came the boom, home from war, then came their babies in the Sixties. Now, after babies—the echo boom—is banging on the door. This fall, Canadian universities welcomed the largest one-year jump in enrollment since 1991, an overall increase of five per cent, or more than 7,200 new first-year students in the system. In Ontario and Quebec, it ran as high as 6.6 per cent; in Alberta, 6.3. Many campuses were scrambling to accommodate the newcomers. In July, University of Western president David Johnston tore a no-entry-as-the-son-leaves-to-all-faculty,

staff and scores, appealing for their help in finding extra space. At the University of Toronto, more than 100 students are still being housed in downtown hotels. Both schools are in the process of constructing major new residences.

And this is just the wake-up call. Despite the fact that tuition has more than doubled in the past decade, despite the fact that student debt has soared, an ever-growing number of Canadians believe that university is a prerequisite to a meaningful, productive life. Call it great expectations, times three: in the past 25 years, the number of degree-holders has tripled. And as those pressures have multiplied into parents, they went the same for their children. Between now and 2010, enrolment will skyrocket by 20 per cent—and that's a conservative estimate. In university terms, it poses a "capacity problem," write large. In political lingo, it raises the huge question—and underlying promise—of accessibility.

An accessibility problem, only exacerbated by another demographic truth: just as a record number of students are straining to get into universities, a record number of faculty are heading in the opposite direction, flooding out the retirement door. Between now and 2010, more than 20,000 of the country's 33,000 faculty will have retired or departed. Between now and 2010, Canadian universities must go on a shopping spree for 32,000 new professors. And since the retirement bulge is a continent-wide phenomenon, the competition for faculty men will be brutal.

In other words, after years of warning, push has finally come to shove. Between 1993 and 1998, governments whipped \$800 million out of higher education in this country. Canadian universities are stretched, to say the least. The fallout, in many corners, has been the gradual dismantling of quality. For most undergraduates, the most glaring result has been a rising student-faculty ratio. "Faculty renewal" may be the slogan of the moment, but it's an especially loaded



By 2010, enrolment will skyrocket by 20 per cent

term when you consider that Canada has lost at least 2,500 professors since 1995.

What's happening in Geoff Smith's corner of Queen's is not an isolated event. Ask Mohamed Rezak, president of the University of Guelph, and he will say bluntly: "The quality of the experience has diminished." It's not that smart leaders haven't used their wits: at Guelph, students who are studying the same subject are "clustered" in residences, to mitigate the isolation of larger classes. Across the board, there has been extraordinary innovation in the face of deep cuts.

But the fallout has been huge. The number of lab assistants has been dwindling for years, lab equipment is outdated, library journals have been cancelled. And in many cases, what is known as the "physical plant"—the bricks and mortar—is crumbling. Two years ago, the administration at the University of Saskatchewan received an engineer's report, warning that the roof on their physical education building was in danger of collapsing. This came just three hours before the first Christmas exams were to be written; the building was evacuated, and demolished last year. A random sampling of three universities on the cost of deferred maintenance produced this: for Dalhousie, roughly \$75 million; for Saint Mary's, more than \$35 million for the University of Calgary, \$85 million. "The last 10 years were about survival," says Robert Pritchard, president of the University of Toronto. "It was very harmful."

Now, in a viciously competitive market, the trick is to make a lightning turnaround. Is this a crisis or an opportunity? Much depends on how quickly governments, both federal and provincial, are willing to help reverse the damage. The good news: for the first time in years, there is a

strong consensus that universities are critical—perhaps pivotal—to the country's future success. Finally, the light bulb has gone on: in a rough global marketplace, knowledge is the capital on which both companies and countries compete, and Canada cannot afford to outsource knowledge development. In fact, the economy demands a reinvestment of the proportion of jobs held by university grads now sits at 18 per cent, many believe that it will easily triple to 25 per cent within the next five years. "Unless you want to bankrupt the country, you have to pay attention," warns Bernard Shapiro, principal of McGill. "And there is a very big leap between rhetoric and doing something."

Last month, the federal government went well beyond the rhetoric with the announcement of the 21st Century Chairs for Research Excellence. The initiative will establish 1,200 new research chairs over the next three years, with a further \$60 million to be created after that—estimated to cost \$300 million annually. In the past three years, the federal government has come through with a series of strong initiatives, from the co-terminus Canada Foundation for Innovation to the Millennium Scholarship Fund, which will kick in as of January, 2000, providing \$360 million in annual grants to post-secondary students. With the research chair announcements, certain university leaders are willing to believe that the brain drain just might reverse to a brain gain. According to Pritchard, the new initiative will add roughly 10 per cent to his school's academic budget alone. "We're back in the game," he says. "Governments are outside."

Yes, it's outside. Now, the question is, how much is it willing to deliver? Last week, Finance Minister Paul Martin announced a \$15-billion surplus over the next five years, half of which will go to new spending. That's music to academic ears, especially if it means the resurrection of lost transfer pay-



ENDOWMENTS

Four Canadian universities have 55 per cent of the endowment money in Canada. How do they stack up against the top two American schools?

Harvard	\$14.6 billion
Yale	\$13.6 billion
Toronto	\$4.2 billion
McGill	\$618 million
UBC	\$613 million
Alberta	\$242 million

ments. In 1995, transfer payments for health, social services and postsecondary education were cut by \$6.2 billion. Earlier this year, the government issued a huge apology to health. Now the Association of Universities and Colleges of Canada is fighting for equal treatment, asking that as these be moved to 1995 levels, in part to pay for deferred maintenance and infrastructure costs. "The best single thing this country could do is reinvest in higher education," says Waterloo's Johnston. "Quality is very much under pressure. In this province, McHenry has promised that there will be a place for every motivated student, but it's legitimate to ask, 'Will it be a good learning place?'"

It's a very good question. The answer will be not only in the federal government's renewed commitment, but the commitment of individual provinces to reinvest as well—in bricks, mortar, books and more. If the financial commitment is forthcoming, the strength of that growth will be in the ability to hire a new generation of young faculty—not in the next 10 years, but in the next three. It's that simple, and that urgent. May we argue about the reality of a brain drain. Not Shupers, who is looking for 150 new faculty between now and 2003. "At the highest-quality level, the hemorrhage has been extreme."

In the coming years, when will distinguished universities see their ability to recruit new faculty who can, as Robertson Davis wrote, "assimilate"? And so information becomes more ubiquitous, the transformative quality of that undergraduate experience will become more precious. Doug Wright is anxious for that experience. At 18, Wright has an average in the low 90s but president of his student council at North Toronto Collegiate Institute, a member of the soccer team, the cross-country team and the track-and-field team. His hope is to get into Queen's next year, or, "if that fails, McGill." And to get there, he has been



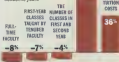
doing some serious homework, writing essays for scholarship applications. But sitting at a terminal at Toronto's hip cyber-café The Electric Bean, Wright is momentarily flummoxed. With a financial planner up on the screen, he is tallying the costs of first year. Residence and books, he expects; three trips home, for sure. Cleaning supplies? "Maybe I'll spend \$20 a month—not too clean." The grand total: \$13,641.54. Wright is momentarily glum: "There are a lot of costs I didn't think of." Still, he settles in his seat. Says Wright: "Both my parents wear an university."

Say no more. That expectation is what lies at the heart of all leaders—political and academic. That, and the challenge of shaping and integrating a strong undergraduate experience. It would seem, on the face of it, that the winners will be obvious: 55 per cent of the endowment funds in this country are now in the hands of only four universities: UBC, Alberta, Toronto and McGill. But we sit at a juncture where it's all up for grabs. In Toronto alone 2,300 more residence beds and up the ante in cross-country recruitment, Jagpreet Hoddie, principal of tiny Bishop's University in Lennoxville, Que., is targeting a North American audience without an experience. In the past four years, the number of American students at her school rose 181 per cent in the past two, scholarships funds have doubled.

With the right kind of leadership, both Bishop's and Toronto will flourish—as will as Queen's, McGill, UBC and many more. We're at a historical juncture, a fork in the road, where the quality of the Canadian system is on the line. It will take true passion—and imagination—to face the challenges ahead. But with a convergence of voices, much can be won. For the generation that follows, we can afford to do no less. ■

A Message in the Rankings

All figures represent the percentage change between the 1995 and 1998 surveys, reflecting data from the 1994-1995 and 1996-1999 academic years.



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Contest began November 1, 1999 and ends January 18, 2003. Official entry forms must be received before midnight, January 10, 2003. No purchase necessary to enter the contest. One entry per contestant.

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The Winners

A celebration of academic innovation and excellence

She hails from the great Outback, but nothing quite prepared Australian Karen George for the sheer magnitude of the University of Guelph. The second-year commerce student remembers walking into her psychology 100 class in 1998 and trying eyes on the vast grandeur of Convocation Hall, packed to the rafters with 900 chattering students. The crowd was almost as big as the mouse population of Lismore, her home town, 14 hours north-east of Perth. One year later, the shock has subsided and George, 19, has come to love campus life in the big city. 'On the face of it, it does look like a huge, impersonal institution,' she confides. 'But when you go inside it, there's so much going on.'

Robert Pridmore, the university's ebullient bushy-browed president, calls it the best of all worlds: Toronto, which has placed first in the medical doctoral category since 1992, has the depth and breadth of resources to enable inquiring minds to venture in the very limits of knowledge. A \$1.2-billion endowment fund, 6,200 faculty, 52,000 students and 32 libraries. At the same time, the university's rich history as a federation of colleges lends it an air of active intimacy. 'No university in Canada has assimilated the same scale of resources,' says Pridmore. 'This is a community and we're doing everything we can to strengthen it.'

MEDICAL DOCTORAL University of Toronto

from various disciplines together to spur innovation. Among them: a new Health Sciences Complex designed to house and in such fields as bioanalytical engineering and occupational therapy, currently spread over 11. Incubate on campus. The \$66-million Centre for Information Technology, slated for completion next fall, is designed to accommodate an expected doubling in the number of students in such fields in computer science and electrical engineering. As well, Toronto hopes to boost its role as a medical training university, creating 3,300 new residence spaces over the next four years.

In the end, Toronto's future will depend largely on what goes



Lloyd (left), Pridmore, George and student Begumwala. Winnipeg's depth and breadth of resources

on in the classroom. Karen Lloyd, a first-year music student, is more than satisfied. 'The people you have access to as teachers are just the best quality.' Even professors in large courses are readily available, says the 19-year-old native of Guelph, Ont. But for learning on a smaller scale, the university offers its 159-series of courses, which guarantee a class size in arts and science programs of no more than 25. In 289-series of courses offers undergrads a hands-on research opportunity, while future 399 offerings will include an international experience.

Regardless of what new paths are pursued, Pridmore says the university will always stay true to its mission for providing a superior education. As students strive to stay abreast of the information explosion, he argues, that need has never been greater. 'Our challenge for the next decade is to harness all of our resources in a way that stretches the capacity of our graduates for critical thinking,' says Pridmore. 'This is the heart and soul of a university education.' And a key ingredient is the University of Toronto's recipe for success.

John Schiefel

Leber (left), student Leaver, Holmgren, Mitchell, Rosinski and student Demonic. Guelph's building on traditional strengths



Horticulturalist Mike Dean has a secret desire to grow roses on the moon. Don't laugh—he may just pull it off. In the past five years, the University of Guelph scientist has polylayed a modest \$50,000 grant into what is on its way to being a \$10-million annual research program, one of the largest of its kind in the world. That work, top scientists are descending on Guelph, Ont., to discuss how to sustain cosmic crops during a long space mission to the moon or Mars. They will tour the university's high-tech life-support system for plants where the light from the microwave-powered lamps is so photosynthetically pure that even the sun blushes with envy.

This is the new Guelph. Building on its strengths in the country's oldest agricultural college, preoccupied with the safety and quality of food, the new Guelph is branching out dramatically into the latest biological and environmental fields. It wants to be on the cutting edge of science with a conscience. Head in the clouds, foot on the ground: that's the right prescription for university president Montechia Rosinski. Guelph has one of the largest research budgets for its size in the country, but it is also a tight-knit community of just over 14,000 students and 630 faculty, with 15 large residences anchoring the grounds. Nearly 4,600 people live on campus and an almost equal number of students work those part-time as well. This balance between high-tech research and undergraduate intimacy—not to mention a vigorous theatre and fine-arts program—us what has made Guelph the winner in the Comprehensive category, overlooking Simon Fraser, last year's winner. It also explains how Guelph can boast both the marquee:

pg, whose custom-designed organs may be used in human transplants, and the two recent winners of the North American Debating Championship.

To strengthen its sense of community, Guelph has become one of the most aggressive universities in ensuring that students succeed in that all-important first year. New students are 'channeled' in dorms with those taking the same courses, creating partnerships for newcomers. A recent innovation: the office of first-year studies has identified the seven courses with the highest dropout rate, and invited senior students to help them out. These third- and fourth-year students held weekly seminars to try to determine what is 'gearing' the material. Ten years ago, only about 70 per cent of Guelph students went on to second year, says Rosinski. 'Now, our retention rate is over 90 per cent.'

One of those who will surely go on as a 19-year-old Aviva Leber of Ormeny, a first-year student in molecular biology. A top scholar and field-hockey player, as well as a dedicated volunteer, Leber chose Guelph because of its research strengths—and because she wanted a 'university town' to help focus her goals. Says Leber: 'I got the feeling they really want us to succeed.' Success is in the air. After a severe recruitment in the early '90s—almost 70 programs were dropped—'it's more for expansion,' Rosinski insists. Rooted in the fertile farming country of western Ontario, the sky is the limit. Maybe even the moon.

Robert Sheppard in Guelph

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UNIVERSITIES 1999

PRIMARYLY UNDERGRADUATE Mount Allison University

Any great university consists of many elements, most-voiced students, learned profs, top-notch facilities. But anyone searching for an underlying explanation of how top Mount Allison University has managed to top Macdonald ranking of Primarily Undergraduate universities for eight consecutive years might want to consider something a little more basic: money. Since it wiped out its debt in 1994, Mount Allison has built up an accumulated endowment of \$66 million. "No question," declares president Ian Newbold, "funding is a big reason why we've been able to maintain our standard of education."

Having deep pockets makes it much possible. In the past eight years, Mount Allison has spent \$35 million upgrading its Sackville, N.B., campus. It has had the money to hire 19 new tenure-track faculty members in the past two years—and the luxury of being able to pick from the best available teaching prospects. As well, much cash means no need to grow to increase the revenue base. The upshot: Mount Allison has limited its student body to 2,900—smaller than many urban Canadian high schools—and maintained an impressive 85.6-per-cent average, earning grade for new students, the highest in its category.

Mount Allison is not puritanic: the women are still free from a noisy faculty strike last winter, which shut down classes for three weeks and left students feeling like pawns in a faculty-administration dispute. But the quiet, close-knit liberal arts school still offers an experience far different from the anonymity of many sprawling urban universities. "It is the type of place where you go to your prof's house for dinner," says Alice Johnson, 20, a third-year Canadian

studies student from Calgary. "You either know the name of everyone you pass on campus, or at least recognize their face."

With students from 51 different countries, the faces are changing. And Mount Allison is changing with the times—enough to have wind every classroom, dormitory and office to the Internet before any other university in Canada. But it remains the kind of place where the overall development of the student seems to us more in touch with the classroom education. "Sackville doesn't have a Cineplex," explains Anamika Doh, 21, a third-year international relations and economics student from Bombay, who also serves as student council president and a member of the university's board of regents and plays intramural soccer. "Most people direct all their energies into university life. Everybody gets involved."

That attitude seems to pay off. Mount Allison ranked second in its category in terms of student awards. It has also produced 11 Rhodes Scholars—rare, on a per-capita basis, than any university in the British Commonwealth. Its alumni list is stacked with business leaders like Wallace McCain, chairman of Maple Leaf Foods Inc., and Pandy Crawford, chairman of Tranco Ltd., and writers like Alex Colville and Christopher and Mary Pratt.

Big names help with fund-raising. Along with its swelling endowment fund, the school's capital campaign—headed up by Crawford, who is also chancellor—is moving along towards its \$20-million goal. The school has grand plans for the future: building improvements, more financial aid for needy students, increased numbers of student research and teaching fellowships, expanding its center for learning disabled students. Which just goes to show that, with money in the bank, even the best schools can get better.

John DeMont is Sackville

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Window into the Rankings

How *Maclean's* takes the measure of Canadian universities

The *Maclean's* ranking takes a measure of the undergraduate experience at Canada's public universities. It compares schools in three peer groupings, universities with similar structures and mandates. Using such factors as research funding, diversity of offerings and the range of PhD programs to define groupings, the universities are placed in one of three categories:

Medical/Doctoral

Universities with a broad range of PhD programs and research, as well as medical schools

Comprehensive

Universities with a significant amount of research activity and a wide range of programs at the undergraduate and graduate levels, including professional degrees

Primarily Undergraduate

Universities largely focused on undergraduate education, with relatively few graduate programs

In reporting to *Maclean's*, universities include all full-time and affiliated campuses. The magazine does not rank schools with fewer than 1,000 full-time students, or those with a strictly religious or specialized mission.

The universities in the three categories are arranged as separate but equal groupings (rankings are on parentheses below). In total, Primarily Undergraduate universities are ranked on 20 performance measures, Comprehensive universities on 21 and Medical/Doctoral

universities on 22—scoring in slightly different weightings for some performance measures.

STUDENT BODY (21 to 22 per cent of final score)

Students are enriched by the input of their peers. For that reason, *Maclean's* collects the incoming students' average high-school grades (12%), and the proportion of those with averages of 75 per cent or more (3%).

This count includes only those students whose secondary-school averages or CEGEP scores served as the basis of admission. Mature students, for example, are excluded. As well, it should be noted that certain universities, in the spirit of accessibility, accept students with lower grades.

As a measure of drawing power, the magazine also counts the proportion of out-of-province students in the first-year undergraduate class (1%) and, for Comprehensive and Medical/Doctoral universities, the percentage of international students at the graduate level (1%). The student-body section also includes graduation rates (2%): the percentage of full-time undergraduate students in their second year who go on to graduate from the institution within one year of the expected time period. In addition, *Maclean's* collects data on the success of the student body at winning national academic awards (3%) over the past five years.

CLASSES (17 to 18 per cent)

The rankings embrace the entire distribution of class sizes at the first- and second-year levels (7.5% for Primarily Undergraduate universities, 7% for the other two categories), as well as the third- and fourth-year levels (7.5% for the Primarily Undergraduate category, 7% for the others). Class-size groupings are: 1 to 25, 26 to 50, 51 to 100, 101 to 250, 251 to 500, 501 plus. *Maclean's* also ranks schools

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on the percentage of first-year classes taught by tenured and tenure-track professors (3%), a measure of how much access new students have to top faculty.

FACULTY (127 per credit)

The rankings assess the caliber of faculty by calculating the percentage of those with PhDs (19%), and the number who won national awards (3%). In addition, the magazine measures the success of eligible faculty in securing grants from each of the three major federal granting agencies (Social Sciences and Humanities Research Council of Canada, Natural Sciences and Engineering Research Council of Canada, and Medical Research Council of Canada), as well as the Canada Council, taking into account both the number and the dollar value secured last year. Social sciences and humanities grants and Canada Council grants (5.5%) and medical/science grants (5.5%) were tallied as separate indicators.

FINANCES (12 per credit)

This section examines the amount of money available for current expenses per weighted full-time-equivalent student (3.3%), as well as the percentage of the budget spent on student services (4.3%) and scholarships and bursaries (4.3%). When preparing their general operating budgets, institutions deducted any funds used to pay off debt.

LIBRARY (12 per credit)

This section assesses the breadth and currency of the university's collection. Schools received points for the number of volumes and volume equivalents per total number of students (4% for Primarily Undergraduate and Comprehensive, 3% for Medical-Dominant). An additional indicator, measuring real holdings, regardless of student numbers, was used in the Medical-Dominant category (1%) to acknowledge the importance of extensive on-campus collections in those universities. *Maclean's* measured as well the percentage of a university's operating budget that was allocated to library services (4%) and the percentage of the actual library budget that was spent on updating the collection (4%). In acknowledging a shift from the traditional library model to an access model, *Maclean's* captures spending on electronic resources in both the library expenses and acquisitions measurements.



REPUTATION (80 per credit)

This section reflects a school's reputation with its own graduates, as well as within the community at large. When looking at alumni support, schools received points for the number—rather than the value—of gifts to the university over the past five years (3%).

For its reputational survey (15%), *Maclean's* sent surveys to 5,467 chief executive officers and executives at corporations in every region, a broad range of university officials, and high-school guidance counsellors across Canada. Respondents rated the schools in three categories: Highest Quality, Most Innovative and Leaders of Tomorrow. But Overall represents the sum of the scores.

Ann Downett Johnson and Mary Dwyer

REPUTATIONAL RESPONSE RATE

Maclean's mailed out 5,467 surveys to guidance counsellors, university officials, CEOs and executives at corporations across the country. The reputational survey is both regional and national in character, dividing the country into the following areas: the Atlantic provinces, Quebec, Ontario and the four Western provinces. All respondents completed a national survey, university officials and guidance counsellors also completed regional surveys.



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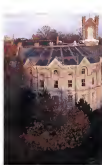
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Medical Doctoral

The *Maclean's* ranking takes a measure of the undergraduate experience at Canadian universities, comparing schools in three peer groupings. The Medical Doctoral universities are those with a broad range of PhD programs and research, as well as medical schools.



Classroom from left for Queen's University, the University of British Columbia and McGill



Reputational Winners

Maclean's surveyed high-school guidance counsellors, university officials, CEOs and recruiters at corporations across the country.

Highest Quality

1. Toronto
2. Queen's
3. McGill
4. UBC
5. Alberta

Most Innovative

1. McMaster
2. Toronto
3. Queen's
4. Alberta
5. UBC

Leaders of Tomorrow

1. Toronto
2. UBC
3. McMaster
4. Queen's
5. Alberta

Best Overall

1. Toronto
2. Queen's
3. McMaster
4. UBC
5. Alberta

OVERALL RANKING

LIST
RANK

STUDENT BODY

Average Starting Grade	Proportion With T16 or Higher	Proportion Who Graduate	Out of 100 (Out of 100)	International (Students)	Student Awards
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CLASSES

Class Size: 2nd Year	Class Size: 3rd Year	Class Size: 4th Year	Class Size: 5th Year	Class Size: 6th Year	Class Size: 7th Year
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FACULTY

Average Salary: Full-time Faculty	Average Salary: Part-time Faculty	Average Salary: Research Faculty	Average Salary: Teaching Faculty	Average Salary: Administrative Faculty	Average Salary: Other Faculty
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FINANCES

Operating Budget	Capital Budget	Operating Budget: Per Student	Capital Budget: Per Student	Operating Budget: Per Faculty	Capital Budget: Per Faculty
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LIBRARY

Total Holdings	Holdings Per Student	Acquisitions	Expenditure	Academic Expenditure	Non-academic Expenditure
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REPUTATION

Academic Reputation	Reputation Survey	Academic Reputation	Reputation Survey
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1	Toronto	1	4	4	3	13	13	4	8	11	2	2	1	2	2	3	4	2	1	3	2	1	1	1
2	UBC	4	3	2	5	10	4	3	2	5	13	1	4	1	5	12	8	1	3	6	10	2	4	4
3	Queen's	2	1	3	1	3	4	2	10	7	15	4	4	8	4	11	1	4	5	2	1	4	8	2
4	McGill	3	2	1	2	2	2	1	4	2	6	7	2	4	3	4	2	10	8	8	12	8	3	8
5	Western	5	7	8	8	8	14	12	3	8	1	9	12	8	7	6	8	3	4	4	7	3	2	7
6	McMaster	5	8	7	7	15	15	5	15	3	5	5	8	3	8	9	11	8	12	10	8	9	10	3
7	Alberta	7	15	13	11	8	3	6	9	9	12	8	8	7	1	5	3	8	2	1	8	7	11	5
8	Dalhousie	4	4	5	4	1	8	6	13	10	8	12	10	11	13	8	5	7	14	13	3	10	7	10
9	Montréal	5	10	9	0	8	7	5	5	1	10	13	3	5	8	14	7	14	7	14	15	12	8	9
10	Calgary	12	12	11	15	5	12	14	14	4	14	10	12	12	9	1	9	8	8	7	11	14	13	8
11	Laval	10	0	8	12	7	8	7	11	15	3	10	7	8	10	13	13	11	10	10	8	13	14	12
12	Ottawa	11	13	12	8	4	9	11	7	14	8	3	14	10	11	2	10	5	11	9	14	11	12	13
13	Manitoba	20	14	14	10	12	10	10	11	6	4	8	9	13	12	7	15	12	13	12	13	5	4	15
14	Saskatchewan	13	9	10	14	11	1	15	8	11	7	14	15	15	15	10	14	15	9	5	5	6	15	11
15	Sharnbrook	14	11	15	13	14	10	13	1	13	11	15	11	14	14	15	12	12	15	15	4	15	8	14

Comprehensive

The *Maclean's* ranking takes a measure of the undergraduate experience at Canadian universities, comparing schools in three peer groupings. The Comprehensive universities are those with a significant amount of research activity and a wide range of programs at the undergraduate and graduate levels, including professional degrees.



University of Waterloo

Reputational Winners

Maclean's surveyed high-school guidance counsellors, university officials, CEOs and recruiters at corporations across the country.

Highest Quality

1. Waterloo
2. Simon Fraser
3. Guelph
4. Victoria
5. New Brunswick

Most Innovative

1. Waterloo
2. Simon Fraser
3. Guelph
4. Victoria
5. York

Leaders of Tomorrow

1. Waterloo
2. Simon Fraser
3. Guelph
4. York
5. Victoria

Best Overall

1. Waterloo
2. Simon Fraser
3. Guelph
4. Victoria
5. York



OVERALL RANKING	LAST YEAR	STUDENT BODY						CLASSES			FACULTY			FINANCES			LIBRARY			REPUTATION		
		Average Ranking Grade	Proportion With PhD Or Higher	Proportion Who Graduate	Cost Of Postgrad (Cost Year)	International (Students)	Student Awards	Class Size (2nd And 3rd Year Level)	Class Size (3rd And 4th Year Level)	Classroom Faculty (Teaching With Thesis Privilege)	Awards For Full-time Faculty	Faculty In Science & Humanities	Medical/ Science Grade	Operating Budget	Endowment & Donations (Percentage Of Budget)	Student Services (Percentage Of Budget)	Holdings Per Student	Acquisitions	Expenditure	Alumni Support	Reputational Survey	
1 Guelph	2	2	1	1	12	10	2	7	6	4	1	3	4	5	4	6	3	3*	7	7*	7	3
2 Simon Fraser	1	3	2	5	6	7	4	6	6*	5	6	1	1	6	2	5	6	11	1	7*	5	2
2 Waterloo	3	1	4	2*	5	6	1	11	6*	5	2	2	6	3	6	7	12	5	2	9	1	1
4 Victoria	8	4	3	2*	4	4	5	3	7	11	3	5	7	2	5	5	5	5	5	5	11	4
5 York	6	5	6	4	11	12	9	9*	11	1	5	4	5	4	9	1	1	5	5	11	5	5
6 Memorial	8	5	5	11	5	2	11	5	2	2	11	7	11	12	1	10	5	2	2	1	5	6
7 Carleton	7	7	9	8	3	11	3	9*	6*	7	8	5	6	1	7	4	4	5	11	4	4	11
8 Windsor	8	10	11	5	10	1	12	12	5	3	4	5	10	5	3	2*	2	7	4	3	3	12
9 New Brunswick	6	9	5	8	1	5	6	4	4	5	9	11	9	11	10	12	5	1	12	2	10	6
10 Concordia	12	11	7	10	2	5	7*	2	3	12	7	10	3	7	11	6	7	10	9	10	6	5
11 Regina	10	5	10	12	5	3	10	1	1	10	12	12	12	10	5	11	11	3*	6	6	12	10
12 UQAM	11	12	12	7	7	5	7*	6	12	6	10	6	2	5	12	2*	10	12	10	12	2	7

* indicates A.T.E. full description of the methodology page 60

Primarily Undergraduate

The Maclean's ranking takes a measure of the undergraduate experience at Canadian universities, comparing schools in three peer groupings. The Primarily Undergraduate universities are those largely focused on undergraduate education, with relatively few graduate programs.



Students at Acadia, Trent University

Reputational Winners

Maclean's surveyed high-school guidance counsellors, university officials, CEOs and recruiters at corporations across the country.

Highest Quality

1. Acadia
2. Mount Allison
3. Wilfrid Laurier
4. Ryerson
5. St. Francis Xavier

Most Innovative

1. Acadia
2. Ryerson
3. Wilfrid Laurier
4. Mount Allison
5. Lethbridge

Leaders of Tomorrow

1. Ryerson
2. Acadia
3. UNBC
4. Wilfrid Laurier
5. Lethbridge

Best Overall

1. Acadia
2. Ryerson
3. Mount Allison
4. Wilfrid Laurier
5. Saint Mary's

OVERALL RANKING	LAST YEAR	STUDENT BODY					CLASSES				FACULTY				FINANCES			LIBRARY			REPUTATION	
		Average Entering Grade	Proportion With TDN 10 Higher	Proportion Who Graduate	Std. Of Progress (Std. Year)	Student Awards	Best Score 1st Year Load	Best Score 2nd Year Load	Classes Taught Full-time Faculty	Awards With PhDs	Awards Per Full-time Faculty	Ratio 1:Student & Researcher Grade	Medicaid 1:Student Grants	Operating Budget	Academic & Research Personnel % Budget	Student Services % Budget	Salaries Per Student	Acquisition	Excess	Research Support	Academic Service	
1 Mount Allison	2	1	4	5	1	2	13	3	3	5*	10*	8	5	4	9	14	3	13	5	13	3	
2 Acadia	3	4	3	13	3	1	10*	13	17	1*	5*	7	9	12	16	10	1	12	9	7	1	
3 Trent	3	11	25*	2	16	4	2*	14*	9	6	1	3	1	9	5	12	10	19	3	4	9	
4 St. Francis Xavier	3	5	7	11	5	3	5	10*	4	4	10*	13	4	16	10	9	9	7	12	5*	7	
5 Wilfrid Laurier	3	2	1	3	20	15	17	14*	21	7	6	4	11	19	1	7	14	3	4	9	4	
6 Winnipeg	6	7	11	18*	19	9	12	2	1	17	2	1	9	2	17	3	17	18	9	11	13	
7 Bishop's	7	9	9	10	2	9*	9	8	15	18	10*	20	15	14	3	1	9	15	1	8	11	
8 UNBC	9*	9	9	N/A	11	17	21	19	20	3	4	2	12	9	19	19	9	1	2	N/A	9	
9 Lethbridge	8	16*	14	9	7	7*	16	6	8	14	7	15	2	3	19	2	7	17	15	12	9	
10 Saint Mary's	10	14*	13	4	9	9*	15	12	5	1*	5*	5	3	17	11	8	19	16	19	9	5	
11 St. Thomas	18	3	5	18*	4	19	18	19	19	3*	10*	5	N/A	6	7	4	4*	19	9	14	12	
12 Moncton	18	12	2	1	10	7*	4	7*	19	19	10*	12	13	7	13	17	4*	19	10	2	17	
13 Mount Saint Vincent	9*	8	8	14	8	18	8	7*	7	5*	10*	11	17	19	15	20	15	4	18	15	10	
14 UPEI	14	14*	12	16	8	5	8	14*	13	15	10*	9	14*	1	19	21	12	5	20	18	18	
15 Laurentian	18	29*	18	15	17	6*	1	5	14	13	8	18	9	5	4	19	11	9	14	20	20	
16 Brandon	15	19*	21	17	12	12	7	1	2	11	10*	18	18	15	21	11	2	21	17	5*	19	
17 Ryerson	18	13	18	12	18	18	19	21	11	20	10*	17	14*	11	12	13	21	2	19*	19	2	
18 Niagara	21	19	17	N/A	19	21	10*	14*	9	19	10*	21	20	13	9	5	13	9	13	1	21	
19 Brock	17	19	15*	8	21	13*	20	18*	12	5*	10*	19	7	21	9	19	19	11	7	19	14	
20 Lakehead	18	29*	18	7	15	13*	16	20	19	12	3	14	10	10	2	15	20	3	11	10	15	
21 Cape Breton (UCCB)	28	18	20	8	13	20	2*	4	10	21	10*	10	18	20	20	8	16	20	21	17	18	

Reading the Rankings

STUDENT BODY

The quality and dedication of students have an enormous impact on the learning environment. Maclean's not only takes two measures of entering grades, but also calculates the success of the student body at winning national awards and at graduating within a reasonable time frame. The university's drawing power from other regions is measured as well.

AVERAGE ENTERING GRADE

Medical Doctoral

1	Queen's	87.2%
2	McGill	86.6%
3	UBC	86.2%
4	Dalhousie	85.1%
5	Toronto	84.5%
6	UofT	84.1%
7	Western	83.8%
8	McMaster	82.2%
9	Saskatchewan	82%
10	Manitoba	81.7%
11	Sherbrooke	81.9%
12	Calgary	81.2%
13	Ontario	80.8%
14	Manitoba	79.6%
15	Alberta	75.5%

Students are enrolled by the region of their peers. Here are the average final-year grades of freshman students entering from high school or Quebec's CEGEP system.

Primarily Undergraduate

1	Mount Allison	83.6%
2	Wilfrid Laurier	82.7%
3	St. Thomas	81.7%
4	Acadia	81.2%
5	St. Francis Xavier	80%
6	UNBC	79.7%
7	Windsor	79.4%
8	Bishop's	79.1%
9	Mount Saint Vincent	78.6%
10	Cape Breton (UCCB)	77.6%
11	Trent	77.6%
12	Moncton	77.4%
13	Ryerson	77.3%
14	UPEI	77.2%
15	Saint Mary's	77.2%
16	Brescia	76.7%
17	Regina	76.7%
18	New Brunswick	76.2%
19	York	76%
20	Lakehead	75%
21	UQAM	75.4%

Comprehensive

1	Western	85.7%
2	Quebec	83.6%
3	Simon Fraser	83.2%
4	Victoria	82.6%
5	Memorial	81.1%
6	York	80.3%
7	Calgary	79%
8	Regina	78.4%
9	New Brunswick	78.3%
10	Windsor	77%
11	Concordia	76%
12	UQAM	75.4%

From class size to student services, a complete guide to the facts and figures behind the Maclean's rankings

PROPORTION WHO GRADUATE

Maclean's measures the percentage of full-time second-year undergraduates who completed their degree within one year of the expected graduation date.

Medical Doctoral

1	Queen's	92.2%
2	McGill	91.4%
3	Toronto	90%
4	Dalhousie	88.4%
5	UBC	86.8%
6	Western	86.1%
7	McMaster	85%
8	Ontario	83.4%
9	Montreal	82.1%
10	Manitoba	81.5%
11	Alberta	80.5%
12	UofT	79.5%
13	Sherbrooke	78.8%
14	Saskatchewan	77.5%
15	Calgary	76.5%

Primarily Undergraduate

1	Moncton	92.7%
2	Trent	88.8%
3	Wilfrid Laurier	88.1%
4	Saint Mary's	87.6%
5	New Brunswick	87.5%
6	Lakehead	86.5%
7	Lakehead	86.3%
8	Cape Breton (UCCB)	79.4%
9	Brack	78%
10	Bishop's	77.5%
11	St. Francis Xavier	76.4%
12	Ryerson	74.4%
13	Acadia	74.3%
14	Mount Saint Vincent	74.2%
15	Urbainville	67.5%
16	UPEI	67%
17	Brescia	63.6%
18	St. Thomas	50.2%
19	Windsor	50.2%
20	Regina	N/A
21	UNBC	N/A

Comprehensive

1	Quebec	87.6%
2	Victoria	86.6%
3	Winnipeg	86.6%
4	York	76.6%
5	Windsor	76.4%
6	Simon Fraser	77%
7	UQAM	74.2%
8	New Brunswick	72.3%
9	Concordia	69.2%
10	Concordia	68.6%
11	Manitoba	67.1%
12	Regina	50.2%

Reporting (established in 1995) and 2002 (reported in 1994) are exempted from reporting information for the volume. Since this measure tracks the eighth second-year students, not the first-year students, the proportion of the two schools' graduates that are reporting. Their overall scores are calculated on the remaining universities.



Bright light: Queen's leadership science student Julia Zeeb (left), Marlene Ann, Adam Macdonald, Monica Martin and Sam Miller

PROPORTION WITH 75% OR HIGHER

As a measure of how bright students enroll the brightest students, Maclean's calculates the percentage of incoming students from high school or CEGEP with averages of 75 per cent or higher.

Medical Doctoral

1	Medical	96.3%
2	UBC	93%
3	Queen's	90.8%
4	Toronto	97.6%
5	Dalhousie	96.6%
6	Western	96.7%
7	McMaster	95.9%
8	UofT	94.2%
9	Montreal	91.5%
10	Saskatchewan	88.4%
11	Calgary	74.9%
12	Ontario	74.6%
13	Alberta	73.5%
14	Manitoba	71.2%
15	Sherbrooke	66.2%

Comprehensive

1	Quebec	96.3%
2	Simon Fraser	95.5%
3	Windsor	91.9%
4	Windsor	88.3%
5	Manitoba	75.4%
6	York	75.1%
7	Concordia	69.4%
8	New Brunswick	68.7%
9	Calgary	68.4%
10	Regina	63.2%
11	Windsor	61.5%
12	UQAM	60.3%

Primarily Undergraduate

1	Wilfrid Laurier	94.2%
2	Moncton	92.3%
3	Acadia	79.1%
4	Mount Allison	76.9%
5	St. Thomas	76.8%
6	Brescia	70.3%
7	St. Francis Xavier	69.6%
8	UNBC	68.2%
9	Mount Saint Vincent	62.6%
10	Ryerson	62.3%
11	Windsor	61.3%
12	UPEI	60.6%
13	Saint Mary's	59%
14	Lakehead	57%
15	Brack	56.2%
16	Trent	54.2%
17	Windsor	52%
18	Lakehead	49.6%
19	Urbainville	48.9%
20	Cape Breton (UCCB)	48.4%
21	Brescia	46.7%

STUDENT BODY

OUT OF PROVINCE (FIRST YEAR)

Medical Doctoral

	PERCENT
1 Dalhousie	32.8
2 McGill	29.9
3 Queens	28.9
4 Ottawa	18.7
5 Dalhousie	11
6 Alberta	10.4
7 Laval	9.7
8 Western	8.2
9 Memorial	7.9
10 UBC	6.9
11 Saskatchewan	6.4
12 Vancouver	4.9
13 Toronto	4.6
14 Sherbrooke	3.2
15 McMaster	1.7

Percentage of students from other provinces:

Primarily Undergraduate

	PERCENT
1 Mount Allison	88.3
2 St. Mary's	44.3
3 Acadia	38.8
4 St. Thomas	33.7
5 St. Francis Xavier	30.4
6 UPEI	18.5
7 Lethbridge	16.1
8 Mount Saint Vincent	15
9 Saint Mary's	13.9
10 Moncton	8.4
11 UNBC	6.1
12 Brandon	6.7

Comprehensive

	PERCENT
1 New Brunswick	29.3
2 Concordia	15.5
3 Carleton	13.1
4 Victoria	12.9
5 Waterloo	8.3
6 Simon Fraser	7.6
7 UQAM	4.3
8 Regina	3.9
9 Moncton	3.4
10 Windsor	1.7
11 York	1.6
12 Guelph	1.5

INTERNATIONAL (GRADUATE)

Medical Doctoral

	PERCENT
1 Saskatchewan	26.1
2 McGill	23.2
3 Alberta	19.7
4 UBC	19
5 Queens	16
6 Laval	16.3
7 Memorial	15.2
8 Dalhousie	12.9
9 Ottawa	12.1
10 Manitoba	12.2
11 Sherbrooke	12.2
12 Calgary	11.2
13 Toronto	10.8
14 Windsor	9.2
15 McMaster	6

Percentage of graduate students from abroad:

Comprehensive

	PERCENT
1 Windsor	39
2 Moncton	23.1
3 Regina	21.9
4 Victoria	21.3
5 New Brunswick	20.8
6 Waterloo	19.9
7 Simon Fraser	17.3
8 Concordia	16.3
9 UQAM	12.4
10 Sherbrooke	12.4
11 Carleton	11.8
12 York	9.6



Achievers: McGill scholarship winners (clockwise from top) Joshua Lefkowitz, Matt Cholera, Zoran Novak, Alex Henry Robertson, Tawny Youssif and Scott Hartwell

STUDENT AWARDS

The five-year tally of the number of students, per 1,000, who have won national awards.

Medical Doctoral

1 McGill	9.2
2 Queens	7.8
3 UBC	7.8
4 Toronto	7.4
5 McMaster	7
6 Dalhousie	6.9
7 Laval	5.8
*6 Alberta	5.3
*6 Montreal	5.3
10 Manitoba	5
11 Ottawa	4.9
12 Western	4.1
13 Sherbrooke	3.8
14 Calgary	3.8
15 Saskatchewan	3.3

Primarily Undergraduate

1 Acadia	3.8
2 Mount Allison	3.7
3 St. Francis Xavier	3
4 Trent	2.5
5 UPEI	2.2
6 Winnipeg	2.1
*7 Lethbridge	1.8
*7 Moncton	1.6
*9 Bishop's	1.5
*9 Laurentian	1.5
*9 Saint Mary's	1.5
12 Brandon	1.4
*10 Brock	1.2
*13 Lethbridge	1.2
15 Wilfrid Laurier	1.1
16 Mount Saint Vincent	0.8
17 UNBC	0.7
18 Ryerson	0.5
19 St. Thomas	0.4
20 Cape Breton (UCC)	0.3
21 Nipissing	0.1

Comprehensive

1 Waterloo	8.8
2 Guelph	5.7
3 Carleton	4.7
4 Simon Fraser	4.6
5 Victoria	4.4
6 New Brunswick	4.1
*7 Concordia	3.1
*7 UQAM	3.1
9 York	2.8
10 Regina	2.4
11 Moncton	1.8
12 Windsor	1.8

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CLASSES

For undergraduates, the classroom is the first line of learning. Because tenure is a significant measure of a faculty member's worth, Maclean's measures the commitment of universities to placing tenured and tenure-track professors at the head of first-year classes. In addition, the magazine takes into account the entire range of classes, placing them in its groups of ascending size and awarding points for the number of classes in each group, six points for each class in the smallest range, five for each in the next smallest and so on. The total points are divided by the number of classes to create a final score for each school.

Medical Doctoral

Percentage of classes, grouped by size, at first- and second-year level

	10-20	20-30	30-40	40-50	50-60	over 60
1 Sherbrooke	82.66	28.28	18.16	1.14	none	none
2 UBC	82.40	26.4	10.86	12	1.55	0.66
3 Western	80.67	28.29	15.33	8.03	1.55	0.12
4 McGill	80.4	18.44	17.94	17.3	2.66	0.23
5 Montreal	78.91	22.22	16.41	9.58	0.95	none
6 Saskatchewan	77.48	24.69	22.37	9.56	0.95	none
7 Ottawa	77.1	28.71	21.84	11.46	0.24	none
8 Toronto	66.90	18.49	14.39	13.07	2.47	0.88
9 Alberta	29.92	28.33	17.9	10.75	1.87	none
10 Queen's	42.38	18.06	13.60	15.67	2.86	none
*11 Laval	23.55	29.9	19.26	3.35	3.52	none
*12 Manitoba	38.8	34.63	22.62	14.98	8.8	0.23
13 Dalhousie	31	28.7	18.69	13.9	0.23	0.23
14 Calgary	32.75	29.1	16.76	14.2	1.39	none
15 McMaster	24.6	29.27	18.69	23.67	4.98	none

Comprehensive

Percentage of classes, grouped by size, at first- and second-year level

	10-20	20-30	30-40	40-50	50-60	over 60
1 Regina	61.84	28.52	7.9	4.38	3.19	none
2 Concordia	31.71	29.23	25.22	3.18	none	none
3 Victoria	44.31	26.3	18.51	6.52	0	0
4 New Brunswick	35.81	36.44	24.28	5.97	0.23	0.23
5 Imperial	23.95	48.48	23.34	1.46	0.18	0.18
6 UQAM	33.52	51.08	26.17	1.72	none	none
7 Guelph	39.46	32.65	11.31	12.95	3.49	none
8 Simon Fraser	44.33	12.39	17.52	34.29	3.47	0.18
9 Carleton	27.7	24.84	19.32	29.1	1.94	0.18
*10 York	38.43	18.10	18.68	22.83	3.26	0.41
11 Waterloo	27.2	24.86	29.72	39.34	2.48	0.41
12 Windsor	27.24	24.24	24.94	35.81	4.2	0.41



Maintaining a personal connection: students in a lab at the University of Sherbrooke

Primarily Undergraduate

Percentage of classes, grouped by size, at first- and second-year level

	10-20	20-30	30-40	40-50	50-60	over 60
1 Laurentian	61.93	27.68	8.21	1.46	none	none
*2 Cape Breton (COCU)	69.61	30.16	5.96	0.95	none	none
*2 York	72.85	9.68	11.27	3.26	0.43	0.21
4 Brandon	60.56	38.22	30.32	1.07	none	none
5 St. Francis Xavier	60.77	39.23	29.11	1.03	none	none
6 Edouard	60.46	38.13	12.39	none	none	none
7 Brandon	52.56	31.28	17.37	1.46	none	none
8 UPEI	54.37	32.02	18.28	1.49	none	none
9 Mount Saint Vincent	45.97	30.86	14.22	6.47	none	none
*10 Acadia	44.86	45.02	16.64	1.82	none	none
*10 Humber	41.67	23.37	19.76	2.1	none	none
12 Waterloo	41.88	42.18	34.87	0.65	none	none
13 Mount Allison	39.81	29	19.76	1.44	none	none
14 Lehigh	41.82	27.42	19.87	1.28	none	none
15 Saint Mary's	37.82	34.19	28.88	2.31	none	none
16 Laurentian	69.58	28.34	18.16	0.7	0.81	none
17 Wilfrid Laurier	48.17	29.39	25.72	1.56	0.7	0.7
18 St. Thomas	33.46	48.32	39.79	0.52	none	none
19 Ryerson	32.48	40.07	15.77	1.87	0.34	none
20 Brock	42.43	37.58	36.79	1.82	1.39	none
21 UNBC	59.56	26.67	20.78	17.59	0.42	0.42

Medical Doctoral

Percentage of classes, grouped by size, at third- and fourth-year level

	10-20	20-30	30-40	40-50	50-60	over 60
1 Montreal	82.35	20.99	6.3	0.75	none	none
2 McGill	53.15	9.31	5.8	1.83	none	none
3 McMaster	79.34	13.39	4.49	1.37	0.25	none
4 Calgary	74.99	38.64	6.52	1.26	none	none
5 UBC	77.62	32.74	6.84	2.64	0.27	none
6 Manitoba	72.38	27.76	1.78	1.99	none	none
7 Queen's	73.52	39.9	6.36	1.29	none	none
8 Western	71.48	36.83	8.44	1.87	none	none
9 Alberta	71.58	28.21	9.85	2.16	none	none
10 Dalhousie	64.69	37.42	7.89	0.59	0.59	none
*11 Saskatchewan	68.39	29.9	1.16	1.56	none	none
*12 Ottawa	68.61	17.99	16.23	6.26	0.48	0.48
13 Concordia	61.93	28.43	12.72	1.99	0.42	0.42
14 Ottawa	59.4	27.33	11.08	1.62	none	none
15 Laval	60.17	21.03	12.89	4.13	0.1	0.1

Comprehensive

Percentage of classes, grouped by size, at third- and fourth-year level

	10-20	20-30	30-40	40-50	50-60	over 60
1 Regina	65.2	12.29	2.41	none	none	none
2 Montreal	67.42	27.63	4.85	6.13	0.15	none
3 Concordia	68.37	26.34	7.18	0.12	none	none
4 New Brunswick	66.88	22.8	18.7	6.83	none	none
5 Windsor	62.89	23.49	11.4	1.18	none	none
6 Guelph	68.9	25.34	18.28	3.26	0.17	0.17
7 Victoria	60.32	26.29	9.12	1.5	none	none
*8 Carleton	62.95	32.86	19.48	2.73	none	none
*9 Simon Fraser	61.21	15.98	11.31	1.47	0.15	0.15
*10 Western	64.5	21.36	12.78	2.54	0.42	0.42
11 York	58.71	27.8	18.12	1.67	0.67	0.67
12 UQAM	31.94	49.17	18.5	1.29	none	none

Primarily Undergraduate

Percentage of classes, grouped by size, at third- and fourth-year level

	10-20	20-30	30-40	40-50	50-60	over 60
1 Brandon	62.2	7.32	6.68	none	none	none
2 Winnipeg	67.62	6.7	3.27	none	none	none
3 Mount Allison	60.45	5.86	1.85	none	none	none
4 Cape Breton (COCU)	67.74	5.91	2.36	none	none	none
5 Laurentian	68.85	9.85	3.22	0.25	none	none
6 Lehigh	68.28	21.4	3.42	0.25	none	none
7 Moncton	62.52	28.23	1.12	0.22	none	none
*7 Mount Saint Vincent	61.52	10.65	none	none	none	none
9 Bishop's	62.38	39.95	1.56	none	none	none
*10 Brock	59.91	12.39	3.28	0.25	none	none
*11 St. Francis Xavier	62.41	39.41	8.12	none	none	none
*12 Saint Mary's	78.2	39.96	5.42	none	none	none
13 Acadia	75.55	24.86	none	none	none	none
*14 Nipissing	70.13	17.87	3.91	none	none	none
*14 UPEI	79.68	28.21	0.1	none	none	none
*14 Saint	76.50	34.86	6.68	none	none	none
*14 Wilfrid Laurier	75.44	20.79	2.61	none	none	none
16 UQAM	71.64	17.87	4.49	0.41	none	none
17 St. Thomas	67.19	24.72	0.18	none	none	none
18 Dalhousie	68.58	22.22	6.37	0.54	none	none
21 Ryerson	64.28	36.23	6.22	1.86	none	none



Access to the best: award-winning pharmacy professor Albert Adams in class at the University of Montreal

CLASSES TAUGHT BY TENURED FACULTY

Maclean's measures the percentage of first-year classes taught by tenured or tenure-track professors.

Medical Doctoral

Percentage of classes, grouped by size, at first- and second-year level

	10-20	20-30	30-40	40-50	50-60	over 60
1 Western	72	none	none	none	none	none
2 Toronto	78.7	none	none	none	none	none
3 Laval	69.3	none	none	none	none	none
4 Manitoba	68.1	none	none	none	none	none
5 McMaster	65.6	none	none	none	none	none
6 Ottawa	60	none	none	none	none	none
7 Saskatchewan	59.8	none	none	none	none	none
8 Dalhousie	56.5	none	none	none	none	none
9 McGill	51.2	none	none	none	none	none
10 Montreal	49.8	none	none	none	none	none
11 Sherbrooke	44	none	none	none	none	none
12 Alberta	43.4	none	none	none	none	none
13 UBC	43.2	none	none	none	none	none
14 Calgary	38.9	none	none	none	none	none
15 Queen's	32.4	none	none	none	none	none

Comprehensive

Percentage of classes, grouped by size, at first- and second-year level

	10-20	20-30	30-40	40-50	50-60	over 60
1 York	68.9	none	none	none	none	none
2 Memorial	68.3	none	none	none	none	none
3 Windsor	65.7	none	none	none	none	none
4 Guelph	65.6	none	none	none	none	none
5 New Brunswick	64.7	none	none	none	none	none
6 Waterloo	54	none	none	none	none	none
7 Carleton	49.1	none	none	none	none	none
8 UQAM	49.1	none	none	none	none	none
9 Simon Fraser	49.2	none	none	none	none	none
10 Regina	49	none	none	none	none	none
11 Victoria	42.5	none	none	none	none	none
12 Concordia	41.4	none	none	none	none	none

Primarily Undergraduate

Percentage of classes, grouped by size, at first- and second-year level

	10-20	20-30	30-40	40-50	50-60	over 60
1 Winnipeg	62.2	none	none	none	none	none
2 Brandon	61.8	none	none	none	none	none
3 Mount Allison	60.7	none	none	none	none	none
4 St. Francis Xavier	77.8	none	none	none	none	none
5 Saint Mary's	66.2	none	none	none	none	none
6 York	64.2	none	none	none	none	none
7 Mount Saint Vincent	61.2	none	none	none	none	none
8 Lehigh	61.3	none	none	none	none	none
9 Nipissing	60.7	none	none	none	none	none
10 Cape Breton (COCU)	65.2	none	none	none	none	none
11 Ryerson	62.3	none	none	none	none	none
12 Brock	60.5	none	none	none	none	none
13 UPEI	60.7	none	none	none	none	none
14 Laurentian	54.5	none	none	none	none	none
15 Bishop's	56.4	none	none	none	none	none
16 Acadia	55.9	none	none	none	none	none
17 Laval	55.6	none	none	none	none	none
18 St. Thomas	52.6	none	none	none	none	none
19 Windsor	50	none	none	none	none	none
20 UNBC	44.4	none	none	none	none	none
21 Wilfrid Laurier	35.7	none	none	none	none	none

It also measures their success at winning state grants from the three main federal bodies: the Canada Council,



Teaching excellence: psychology professor Gary Poole with Simon Fraser undergraduate

Moche's measures the percentage of full-time faculty with a Ph.D.

Medical Doctoral

1	LBC	98.1
2	Toronto	97.3
3	Ottawa	96.8
4	Quebec	96
5	McMaster	94.8
6	Alberta	94.7
7	McGill	94.2
8	Manitoba	93.9
9	Western	93
10	Calgary	92.9
11	Level	92.8
12	Dalhousie	91.2
13	Montréal	90.1
14	Saskatchewan	88.8
15	Shubertown	78.8

Comprehensive

1	Guelph	96.3
2	Windsor	95
3	Victoria	94.5
4	Winnipeg	94.3
5	Yok	93.5
6	Simon Fraser	92.4
7	Concordia	90.6
8	Calgary	90.4
9	New Brunswick	87.5
10	UQAM	83.6
11	Memorial	83.3
12	Regina	76.3

The five-year tally of the number of full-time professors, per 1,000 who have won national awards.

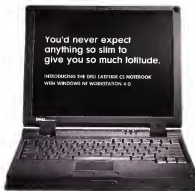
Medical Doctoral	
1 Toronto	8.8
2 McGill	8.2
3 Monash	8.1
*4 USC	7.9
*6 Queen's	7.8
8 McMaster	7.7
7 Laval	7.6
9 Alberta	5.7
9 Manitoba	4.9
19 Dalhousie	4.2
21 Sherbrooke	4.1
*12 Calgary	3.9
*10 Western	3.8
14 Ottawa	3.5
20 Saskatchewan	3.1

Comprehensive

1	Simon Fraser	6.8
2	Vancouver	9.9
3	Guelph	4.4
4	York	3.7
5	Victoria	2.8
6	UQAM	2
7	Memorial	1.8
8	Calgary	1.7
9	Windsor	1.1
10	Concordia	0.9
11	New Brunswick	0.7
12	Regina	0.6

Primarily Undergraduate

2	East	8.5
2	Worthing	3.2
9	Liphedra	2.4
4	ENBC	2.1
75	Acadia	2.1
15	Saint Mary's	1
7	Lambidge	0.9
9	Wild Laurel	0.7
9	Lauraville	0.7
100	Richy's	0.6
100	Swanton	0.6
100	Drick	0.6
100	Gape Breton (JUGO)	0.6
100	Moncton	0.6
100	Mount Allison	0.6
100	Mount Saint Vincent	0.6
100	Nipissing	0.6
100	UPEI	0.6
100	Yerkes	0.6
100	St. Francis Xavier	0.6
100	St. Thomas	0.6



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associate professor of
medical genetics, at a
University of Alberta lab



FACULTY

SOCIAL SCIENCES AND HUMANITIES GRANTS

Below are the average size and number of peer-reviewed research grants from both the Social Sciences and Humanities Research Council and the Canada Council. The size of grants is listed per eligible full-time faculty member, the number of grants is per 100 eligible full-time faculty members. The ranking reflects a weighted average of the two.

Medical Doctoral

1 UBC	\$7,379	30.45
2 Toronto	6,475	32.23
3 McMaster	7,376	26.99
4 McGill	5,536	29.33
5 Memorial	5,796	27.37
6 Queen's	5,474	27.35
7 Alberta	6,394	20.82
8 Victoria	5,122	26.76
9 UofW	4,943	26.76
10 Laval	4,664	17.38
11 Dalhousie	2,956	16.66
12 Calgary	2,795	14.95
13 Manitoba	1,961	10.72
14 Saskatchewan	1,700	8.77
15 Saskatchewan	1,700	8.77

Primary Undergraduate

1 Winnipeg	\$5,896	34.5
2 UBC	2,781	28.20
3 Trent	2,187	18.6
4 Wilfrid Laurier	1,947	13.94
5 Saint Mary's	1,796	8.92
6 Mount Allison	1,658	9.41
7 Acadia	1,658	7.5
8 UPE	1,117	10.47
9 St. Thomas	125	10.54
10 Cape Breton UCTC	1,337	7.60
11 Mount Saint Vincent	868	7.46
12 Moncton	511	6.71
13 St. Francis Xavier	894	5.61
14 York	933	5.69
15 Lethbridge	720	2.94
16 Laurentian	575	3.44
17 Ryerson	719	2.25
18 Brandon	642	3.04
19 Brock	463	3.5
20 Augustin	357	1.47
21 Humber	21	1.72

Comprehensive

1 Simon Fraser	\$4,441	29.42
2 UQAM	4,447	29.40
3 Concordia	3,395	22.04
4 York	3,267	18.40
5 York	3,052	10.76
6 Victoria	2,892	14.90
7 Victoria	2,648	12.90
8 Waterloo	2,130	14.90
9 New Brunswick	2,054	14.90
10 Windsor	826	6.42
11 Memorial	787	5.78
12 Regina	621	6.42

MEDICAL/SCIENCE GRANTS

Here are the average size and number of peer-reviewed research grants from both the Natural Sciences and Engineering Research Council and the Medical Research Council. The size of grants is listed per eligible full-time faculty member, the number of grants is per 100 eligible full-time faculty members. The ranking reflects a weighted average of the two.

Medical Doctoral

1 Alberta	\$9,349	32.23
2 Toronto	8,104	28.71
3 McGill	8,813	28.47
4 Queen's	6,452	18.81
5 UBC	6,420	20.75
6 Montreal	5,122	12.6
7 Western	4,772	12.60
8 McMaster	4,168	12.32
9 Calgary	4,128	11.62
10 Laval	3,123	11.24
11 Ottawa	3,080	10.28
12 Western	2,647	11.04
13 Dalhousie	2,594	11.19
14 St. John's	1,111	11.41
15 Saskatchewan	2,591	10.71

Primary Undergraduate

1 Trent	\$5,494	19.0
2 Lethbridge	2,142	1.05
3 Saint Mary's	1,946	9.08
4 St. Francis Xavier	1,286	7.47
5 Mount Allison	1,272	11.41
6 Wilfrid Laurier	1,131	12
7 Brock	1,111	12
8 Acadia	1,078	10.18
9 Laurentian	1,014	10.25
10 Laval	1,014	10.25
11 Wilfrid Laurier	1,014	10.25
12 UBC	1,014	10.25
13 Moncton	1,014	10.25
14 UPE	1,014	10.25
15 St. Thomas	1,014	10.25
16 Brandon	1,014	10.25
17 Mount Saint Vincent	1,014	10.25
18 Cape Breton UCTC	1,014	10.25
19 Brock	1,014	10.25
20 Humber	1,014	10.25
21 St. Thomas	1,014	10.25

Comprehensive

1 Waterloo	\$4,330	16.28
2 York	4,330	16.28
3 York	4,330	16.28
4 York	4,330	16.28
5 York	4,330	16.28
6 York	4,330	16.28
7 York	4,330	16.28
8 York	4,330	16.28
9 York	4,330	16.28
10 York	4,330	16.28
11 York	4,330	16.28
12 York	4,330	16.28
13 York	4,330	16.28

*St. Thomas is mentioned here reporting information for this and other as does not offer reference program. Its overall score is reflected on the remaining indicators.

FINANCES

The financial resources at a university's disposal determine its ability to provide students with many valuable opportunities. Macklin's measures the size of the operating budget per weighted full-time-equivalent student, as well as the percentage of the budget devoted to student services and to scholarships and bursaries.



Scholarship winners: Megan Crook (left), Rosemary Chaudhary and Kanika Loh at York University

OPERATING BUDGET

These figures show the size of operating expenditures per weighted full-time-equivalent student

Medical Doctoral

1 Calgary	\$8,107
2 Ottawa	5,566
3 Western	6,376
4 McGill	6,883
5 Alberta	7,254
6 Victoria	7,241
7 Moncton	5,143
8 Dalhousie	7,030
9 Winnipeg	4,847
10 Saskatchewan	4,654
11 Queen's	6,117
12 UBC	5,596
13 Laval	6,433
14 Montreal	6,694
15 Dalhousie	6,657

Primarily Undergraduate

1 UPE	\$6,389
2 Wilfrid Laurier	6,123
3 Lethbridge	6,091
4 Mount Allison	7,790
5 Laurentian	7,332
6 Trent	7,016
7 Maricopa	7,093
8 UPE	6,759
9 St. Thomas	6,682
10 Laval	6,624
11 York	6,548
12 York	6,435
13 York	6,419
14 York	6,323
15 Brandon	6,347
16 York	6,314
17 York	6,314
18 York	6,314
19 York	6,314
20 York	6,314
21 York	6,314

Comprehensive

1 Moncton	\$7,699
2 Simon Fraser	7,455
3 Windsor	7,452
4 York	7,413
5 York	7,350
6 York	7,215
7 York	7,196
8 York	7,142
9 York	6,999
10 New Brunswick	6,582
11 York	6,245
12 York	6,245
13 York	6,245
14 York	6,245
15 York	6,245
16 York	6,245
17 York	6,245
18 York	6,245
19 York	6,245
20 York	6,245
21 York	6,245

Medical Doctoral

1 UBC	\$1
2 Toronto	6.46
3 Western	4.27
4 Queen's	4.56
5 Ottawa	4.43
6 York	4.42
7 Dalhousie	4.18
8 York	4.06
9 McMaster	3.8
10 McGill	3.43
11 Laval	3.86
12 Montreal	3.34
13 York	3.04
14 Montreal	2.62
15 Saskatchewan	2.85

Comprehensive

1 York	6.95
2 Windsor	6.24
3 York	6.24
4 York	6.24
5 York	6.24
6 York	6.24
7 York	6.24
8 York	6.24
9 York	6.24
10 York	6.24
11 York	6.24
12 York	6.24
13 York	6.24
14 York	6.24
15 York	6.24

STUDENT SERVICES

Percentage of total operating expenditures devoted to student services.

Primarily Undergraduate

1 York	13.29
2 Lethbridge	10.67
3 York	9.76
4 St. Thomas	8.48
5 York	8.48
6 York	8.48
7 York	8.48
8 York	8.48
9 York	8.48
10 York	8.48
11 York	8.48
12 York	8.48
13 York	8.48
14 York	8.48
15 York	8.48

SCHOLARSHIPS & BURSARIES

Percentage of total operating expenditures devoted to scholarships and bursaries.

Medical Doctoral

1 Queen's	\$1
2 McGill	6.75
3 York	6.66
4 York	6.66
5 York	6.66
6 York	6.66
7 York	6.66
8 York	6.66
9 York	6.66
10 York	6.66
11 York	6.66
12 York	6.66
13 York	6.66
14 York	6.66
15 York	6.66

Comprehensive

1 York	6.66
2 York	6.66
3 York	6.66
4 York	6.66
5 York	6.66
6 York	6.66
7 York	6.66
8 York	6.66
9 York	6.66
10 York	6.66
11 York	6.66
12 York	6.66
13 York	6.66
14 York	6.66
15 York	6.66

Primarily Undergraduate

1 Wilfrid Laurier	6.52
2 Lethbridge	6.33
3 York	6.33
4 York	6.33
5 York	6.33
6 York	6.33
7 York	6.33
8 York	6.33
9 York	6.33
10 York	6.33
11 York	6.33
12 York	6.33
13 York	6.33
14 York	6.33
15 York	6.33

LIBRARY

The library is the heart of many campuses. Maclean's measures the commitment to library funding, as well as the collection's size and currency.



Plugged in: students at the University of New Brunswick

TOTAL LIBRARY HOLDINGS

Medical/Dental

1 Toronto	33,327
2 Alberta	9,227
3 UBC	7,542
4 Acadia	5,385
5 Queen's	5,009
6 Calgary	4,794
7 Montreal	4,689
8 McGill	4,423
9 Saskatchewan	4,342
10 Laval	4,121
11 Ottawa	3,995
12 McMaster	2,997
13 Manitoba	2,898
14 Dalhousie	2,962
15 Shethsville	2,898

HOLDINGS PER STUDENT

Medical/Dental

1 UBC	388
2 Queen's	321
3 Toronto	305
4 Windsor	285
5 Saskatchewan	274
6 UBC	270
7 Dalhousie	260
8 McGill	215
9 Ottawa	190
10 Laval	182
11 Montreal	185
12 Manitoba	171
13 Dalhousie	161
14 Montreal	144
15 Shethsville	139

Comprehensive

1 New Brunswick	390
2 Memorial	294
3 Guelph	246
4 York	246
5 Victoria	226
6 Carleton	221
7 Windsor	219
8 York	210
9 York	210
10 Carleton	162
11 Simon Fraser	136
12 UQAM	92

These figures show the number of volumes in all campus libraries, divided by the number of full-time equivalent students.

Primarily Undergraduate

1 Acadia	388
2 Brandon	377
3 Mount Allison	344
4 Brandon	305
5 St. Thomas	300
6 UBC	245
7 Dalhousie	223
8 Dalhousie	223
9 York	210
10 York	210
11 York	210
12 York	210
13 York	210
14 York	210
15 York	210

Comprehensive

1 Simon Fraser	42.6
2 Memorial	42.6
3 Waterloo	40.48
4 Windsor	40.3
5 Victoria	39.48
6 York	38.42
7 York	38.42
8 York	38.42
9 York	38.42
10 York	38.42
11 York	38.42
12 York	38.42
13 York	38.42
14 York	38.42
15 York	38.42

ACQUISITIONS

Medical/Dental

1 Queen's	46.24
2 Toronto	41.8
3 Dalhousie	40.82
4 Dalhousie	40.82
5 Saskatchewan	40.71
6 McMaster	40.37
7 Queen's	41.82
8 Alberta	41.82
9 Laval	40.37
10 UBC	39.21
11 Calgary	39.18
12 McGill	37.54
13 Manitoba	36.54
14 Ottawa	35.3
15 Montreal	33.06

Comprehensive

1 Simon Fraser	42.6
2 Memorial	42.6
3 Waterloo	40.48
4 Windsor	40.3
5 Victoria	39.48
6 York	38.42
7 York	38.42
8 York	38.42
9 York	38.42
10 York	38.42
11 York	38.42
12 York	38.42
13 York	38.42
14 York	38.42
15 York	38.42

To gauge the currency of resources, Maclean's measures the proportion of the library budget allocated to updating the university's collection.

Primarily Undergraduate

1 UBC	46.8
2 York	42.76
3 Laval	40.38
4 Mount Saint Vincent	42.49
5 UBC	42.05
6 Laval	40.38
7 St. Francis Xavier	37.3
8 Laurier	37.48
9 Wilfrid Laurier	35.06
10 Moncton	36.34
11 Brock	35.21
12 Acadia	34.48
13 Mount Allison	33.8
14 Saint Mary's	33.67
15 Bishop's	32.64
16 St. Thomas	31.84
17 Laval	31.77
18 York	30.39
19 York	30.39
20 York	30.39
21 York	30.39
22 York	30.39

Comprehensive

1 Simon Fraser	42.6
2 Memorial	42.6
3 Waterloo	40.48
4 Windsor	40.3
5 Victoria	39.48
6 York	38.42
7 York	38.42
8 York	38.42
9 York	38.42
10 York	38.42
11 York	38.42
12 York	38.42
13 York	38.42
14 York	38.42
15 York	38.42

EXPENSES

A measure of financial commitment, this indicator shows the percentage of the university budget devoted to maintaining library services.

Medical/Dental

1 UBC	4.25
2 Queen's	3.45
3 Queen's	3.24
4 Manitoba	3.17
5 Saskatchewan	3.14
6 Alberta	3.06
7 McGill	3.27
8 Montreal	3.24
9 Dalhousie	3.14
10 Ottawa	3.06
11 Montreal	3.14
12 Montreal	3.14
13 McGill	3.14
14 McGill	3.14
15 Shethsville	3.28

Comprehensive

1 Memorial	2.21
2 York	2.21
3 York	2.21
4 York	2.21
5 York	2.21
6 York	2.21
7 York	2.21
8 York	2.21
9 York	2.21
10 York	2.21
11 York	2.21
12 York	2.21
13 York	2.21
14 York	2.21
15 York	2.21

Primarily Undergraduate

1 Dalhousie	3.89
2 UBC	3.89
3 York	3.89
4 Wilfrid Laurier	3.89
5 Mount Allison	3.89
6 York	3.89
7 Brock	3.89
8 Acadia	3.89
9 St. Thomas	3.89
10 Brock	3.89
11 Laval	3.89
12 York	3.89
13 York	3.89
14 York	3.89
15 York	3.89

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REPUTATION

A solid reputation attracts the best students and professors—and gives graduates an enviable calling card. Maclean's measures a school's reputation with its own graduates through alumni donations. In addition, editors solicited the opinion of 5,467 high-school guidance counsellors, university officials, CEOs and corporate executives across Canada. The reputational survey is both regional and national in character, dividing the country into the following areas: the Atlantic provinces, Quebec, Ontario and the four Western provinces. All respondents completed a national survey; university officials and guidance counsellors also completed regional surveys.

NATIONAL REPUTATIONAL RANKING

This ranking combines all 45 universities from the three categories into one group. Below are the top 20.

Best Overall

- 1 WATERLOO
- 2 TORONTO
- 3 QUEEN'S
- 4 McMASTER
- 5 UBC
- 6 ALBERTA
- 7 SIMON FRASER
- 8 McGILL
- 9 ACADIA
- 10 GUELPH
- 11 WESTERN
- 12 CALGARY
- 13 RYERSON
- 14 VICTORIA
- 15 MONTREAL
- 16 DALHOUSIE
- 17 YORK
- 18 MOUNT ALLISON
- 19 SASKATCHEWAN
- 20 WILFRID LAURIER



Fostering innovation and excellence: computer engineering students at the University of Waterloo

Highest Quality

1. TORONTO
2. QUEEN'S
3. WATERLOO
4. McGILL
5. UBC
6. ALBERTA
7. McMASTER
8. WESTERN
9. SIMON FRASER
10. DALHOUSIE
11. GUELPH
12. ACADIA
13. MONTREAL
14. MOUNT ALLISON
15. VICTORIA
16. CALGARY
17. WILFRID LAURIER
18. LAVAL
19. NEW BRUNSWICK
20. SASKATCHEWAN

Most Innovative

1. WATERLOO
2. McMASTER
3. TORONTO
4. SIMON FRASER
5. QUEEN'S
6. ALBERTA
7. SIMON FRASER
8. UBC
9. GUELPH
10. McGILL
11. WESTERN
12. CALGARY
13. RYERSON
14. VICTORIA
15. MONTREAL
16. SASKATCHEWAN
17. YORK
18. WILFRID LAURIER
19. UQAM
20. MOUNT ALLISON

Leaders of Tomorrow

1. WATERLOO
2. TORONTO
3. UBC
4. McMASTER
5. QUEEN'S
6. ALBERTA
7. SIMON FRASER
8. McGILL
9. RYERSON
10. GUELPH
11. CALGARY
12. WESTERN
13. ACADIA
14. YORK
15. VICTORIA
16. OTTAWA
17. DALHOUSIE
18. WILFRID LAURIER
19. LETHBRIDGE
20. MOUNT ALLISON



Ties that bind: Brock University students kayaking on the Ottawa River

ALUMNI SUPPORT

Maclean's measures the percentage of alumni who made gifts to the university over a five-year period.

Medical Doctoral

1. Toronto 23.4
2. Western 22.4
3. McGill 20.2
4. UBC 19.6
5. Manitoba 19.6
6. Queen's 15.7
7. Dalhousie 15.6
8. Sherbrooke 15.1
9. Montreal 14.7
10. McMaster 13
11. Alberta 12.6
12. Ottawa 11.3
13. Calgary 11.2
14. Laval 10.5
15. Saskatchewan 9.9

Comprehensive

1. Waterloo 22
2. UQAM 20.4
3. Windsor 17.7
4. Carleton 16.8
5. Simon Fraser 15.2
6. Concordia 14.1
7. York 13.8
8. York 12.8
9. Memorial 12.6
10. New Brunswick 11.6
11. Victoria 9.5
12. Regina 7.3

Primarily Undergraduates

1. Kingston 35
2. Moncton 32.8
3. Bishop's 32
4. Trent 32.3
5. Brandon 27
6. St. Francis Xavier 27
7. Acadia 26.4
8. Saint Mary's 22
9. Wilfrid Laurier 20.2
10. Lakehead 20
11. Winnipeg 18.7
12. Lethbridge 17.6
13. Mount Allison 17.2
14. St. Thomas 15.9
15. Mount Saint Vincent 15.7
16. UPEI 15.5
17. Cape Breton (NCCB) 12.8
18. Brock 12.8
19. Ryerson 10.7
20. Laurentian 7.1
- UNBC N/A

UNBC, which opened in 1998, is exempted from reporting information for this category. Since this measure calculates alumni gifts over a five-year period, UNBC's current data provides a fair representation of its success in soliciting the incoming industries.

Value Added

Which universities get top marks for giving the students with their students? In this attempt to find an output measure, combining measurements from McDaniel Scientific Ltd. (ranked two out of five figures) The first includes measures related to the incoming student

average entering grade and the percentage of the entering students with averages of 75 per cent or higher. The second criterion measures two measures of student achievement: the proportion who graduate and students' post-graduate. Finally, the researchers identified those schools with the greatest difference between the two figures.

1. Trent
2. Lakehead
3. UQAM
4. Lethbridge
5. Windsor
6. Brock
7. Laurentian
8. Manitoba
9. Saint Mary's
10. Alberta
11. Cape Breton (UCCB)
12. Moncton
13. Ottawa
14. New Brunswick
15. Brandon



A nurturing environment: Trent professor Thomas Holbrook demonstrates the chemical makeup of DNA molecules to embryology students



Financial Planning

Undergraduate fees, from the least expensive to the most

The cost of an undergraduate education—tuition, plus compulsory ancillary fees—varies enormously across the country. British Columbia and Quebec have frozen tuition in recent years; other provinces, such as Saskatchewan and Newfoundland, have agreed to strictly limit annual increases. And since 1997, Quebec universities have charged out-of-province students differential fees. Meanwhile, Acadia's high tuition includes the lease of a

laptop computer and software, part of its so-called Acadia Advantage program.

Maclean ranks the universities with a student's pocketbook in mind. All fees are for undergraduate arts and science programs in September, 1999. The ranks of several universities appear twice on this list: Quebec institutions where out-of-province fees apply, and schools that charge different fees for arts and science programs.

School	Tuition	Compulsory ancillary fees	Total	School	Tuition	Compulsory ancillary fees	Total
Laurier (Quebec students)	\$1,668	\$150	\$1,818	Bishop's (out-of-province students)	\$3,438	\$417	\$3,855
Sherbrooke (Quebec students)	\$1,668	\$239	\$1,907	Montreal (out-of-province students)	\$3,609.30	\$266	\$3,875.30
UQAM (Quebec students)	\$1,668	\$270	\$1,938	Cape Breton (UCCB)	\$3,700	\$250	\$3,950
Ualaph's (Quebec students)	\$1,668	\$417	\$2,085	Alberta	\$3,550.80	\$414.48	\$3,965.28
Montréal (Quebec students)	\$1,839.30	\$266	\$2,105.30	Niagara	\$3,530	\$471	\$3,981
Concordia (Quebec students)	\$1,668	\$734	\$2,402	Lethbridge	\$3,360	\$634.95	\$3,994.95
UPE	\$2,295	\$182.75	\$2,477.75	Laurentian	\$3,765	\$300	\$4,074
McGill (Quebec students)	\$1,668.30	\$640.50	\$2,308.80	Western	\$3,645	\$311.95	\$4,156.95
Simon Fraser	\$2,310	\$207	\$2,517	Concordia (out-of-province students)	\$3,438	\$734	\$4,172
Victoria	\$2,263	\$263	\$2,526	Ottawa	\$4,091	\$141.48	\$4,232.48
UNBC	\$2,208	\$282	\$2,490	McMaster	\$3,730	\$484	\$4,214
St. Thomas	\$2,660	\$ 96	\$3,096	Saint Mary's	\$4,010	\$215.50	\$4,225.50
Nanaimo	\$2,650	\$125	\$3,075	Brock	\$2,874	\$364	\$4,238
Niagara (Arts)	\$2,802	\$217.90	\$3,119.90	Windsor	\$3,794	\$494	\$4,288
Saskatchewan	\$3,057	\$125.52	\$3,182.52	Lakeland	\$3,600	\$432	\$4,032
Brandon (Arts)	\$3,030	\$185.34	\$3,215.34	Dalhousie (Arts)	\$4,050	\$234	\$4,284
Windsor (Arts)	\$3,086.05	\$139.69	\$3,225.74	Mount Saint Vincent	\$3,955	\$349	\$4,304
Regina	\$3,050.50	\$187.50	\$3,238	Queen's	\$3,874	\$390.33	\$4,264.33
Sherbrooke (out-of-province students)	\$3,168	\$239	\$3,407	McGill (out-of-province students)	\$3,438	\$840.60	\$4,278.60
Brandon (Science)	\$3,294	\$185.34	\$3,479.34	St. Francis Xavier	\$4,280	\$123	\$4,283
Halifax (Science)	\$3,268	\$230.50	\$3,498.50	York	\$3,873	\$414	\$4,287
Laurier (out-of-province students)	\$3,438	\$150	\$3,588	Carleton	\$3,780	\$510.32	\$4,290.32
Memorial	\$3,300	\$352	\$3,652	Waterloo	\$3,874	\$425	\$4,299
New Brunswick	\$3,430	\$230	\$3,660	Georg	\$3,794	\$514.35	\$4,308.35
Winnipeg (Science)	\$3,560.40	\$138.99	\$3,706.40	Ryerson	\$3,941.92	\$393.64	\$4,335.16
UQAM (out-of-province students)	\$3,430	\$270	\$3,700	Trent	\$3,874	\$462	\$4,336
UPR	\$3,460	\$332	\$3,812	Wilfrid Laurier	\$3,834	\$508.63	\$4,342.63
Calgary	\$3,650	\$597.50	\$3,847.50	Mount Allison	\$4,220	\$180	\$4,400
				Toronto	\$3,835	\$565	\$4,401
				Dalhousie (Science)	\$4,575	\$214	\$4,789
				Acadia	\$5,450	\$147	\$5,597

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In a competitive market, universities are trying to smooth the transition for newcomers

First-year Confidential

By Brian Bergman

Karli Moncrief was at her home in Alameda, a small town in southern Saskatchewan, when she got the call from University of Alberta chancellor Louis Helle. Along with 17 others, Moncrief had just been awarded a Chancellor's Graduate scholarship, granted for academic excellence and worth \$15,000 over four years. While thrilled at the honour, the soft-spoken 18-year-old expressed her concerns about attending such a large university so far from friends and family. One of her chafes from the old life, was that she would find itself in a sea of nearly 30,000 students. The Moncrief family accepted the chancellor's invitation to visit Edmonton and talk to her directly. "She was very reassuring," recalls Moncrief. "She even gave me her number and told me to call if there was anything I needed." A tour of the campus and a parent orientation session cemented the family decision to send Moncrief on her way—and now there's no looking back. "To my surprise," says Moncrief, weeks into her brand new life as a first-year arts student, "I haven't been homesick at all."

Not every student enjoys such a parental push when making the leap to higher education. But in this era of scholastic sporting—when recruiting and retaining the best students is a key benchmark of a university's success—campus administrators across Canada are making unprecedented efforts to ease what is often a very awkward transition. Longer and more intense student orientation sessions, credit courses that essentially teach how to make the best use of a university's resources and helpful up support

services are all part of the mix. But the overriding objective reads like a page from Rowling's *Harry Potter*: keep the newcomers settled. Says Beth Chidley, transition coordinator at the University of Windsor: "If the students are not successful, then we are not serving them properly." Peggy Patterson, chief academic officer and associate vice-president of student affairs at the University of Calgary, also reaches for a consumer metaphor when explaining the proliferation of programs aimed at enhancing the first-year experience. "Students are very focused on what they want to do," observes Patterson. "There are also giving a lot of



Matthews at Queen's, Moncrief with Statistics and dog Otto at the University of Alberta (left) independent



becomes an even greater priority. Students, dipping ever further into debt to finance their educations, have a similar incentive to get it right the first time around.

The shift that universities are now focusing on is, for many students, a seismic one—from the familiar corridors of high school to a sprawling, anonymous campus; from the confines of adolescence to the first heady burst of adult freedom. The contrasts are most striking for students who are far from home. "I went to the same high school from grades eight through 12," says Aaron Keobke, a native of Whitehorse who is now a first-year science student at the University of Alberta, living in Luce Hall, a co-ed residence housing about 1,100 students. "I knew every teacher, just about every student—school was a very big part of my social life." Heather Clitheron, a fourth-year English major at the University of Calgary, recalls her first five days on campus as a period of profound disorientation. Clitheron, who moved to Calgary from Toronto in 1996, says that "one of the giant problems I had was that everyone here had gone to high school together. At lunchtime, you don't even know who to sit down and chat with. For the first few weeks, I was ready to go on a plane."

Fitting in was also a challenge for Geoff Matthews, a first-year engineering student at Queen's University in Kingston, Ont. Matthews, who comes from a middle-class home in Mississauga, Ont., initially felt intimidated by his overachieving classmates, many of whom came from privileged backgrounds. "Everyone here was so smart and knew what to do socially," he says. "I felt like everything I said and did was stupid."

Ironically, the way some students make the social adjustment can lead to other problems. Matthews admits that he spent some of his first week drunk—although he says he has since learned to cut back on the partying. Other new targets to sober up: "Everybody has a bad very about a party situation from first year," says Ali Jalied, a fourth-year life sciences student at Queen's. "Drinking the night before causes. Oh what we call the walk of shame—going really drunk, going home with someone and then having to walk home from



their house the next morning with everyone looking on."

Over-involving and social responsibilities are distractions—welcome or otherwise—for many first-year university students. But for most, the biggest hurdles are far more prosaic. Unlike grade school, where teachers monitor their progress and parents egg them on, students tend to master the self-discipline to study independently—and to pace themselves to handle the course demands. And it's often the students who breezed through high school who face the steepest learning curve. Mike

to my first year and a lot of the people I knew are not here now. They dropped out."

In some disciplines, the scramble for good grades can be brutal. Even the very best students feel the pressure. At 16, Jennifer Gelinas is the youngest student at the University of Alberta—and probably one of the brightest. After maintaining a 99-per-cent grade average in high school, she received the university's prestigious President's Citation, worth \$25,000 over four years. But Gelinas, a first-year science student with her eye on medical school, takes nothing for granted. "I recently went to

Galgoczy Clithorai: "For the first few weeks, I was really in to get on a plane."

disorder. "It is definitely different here," says Scammon, who is contemplating moving from his parents' home into residence in the next couple of years. "But that's what I've been looking forward to—more independence."

Making it on your own was the order of the day for an earlier generation of students. Anne Marie Deane, who attended the University of Alberta three decades ago, recalls her first-year performance: "I did decently, absolutely decently. I was bad at managing my time and my study habits were not much better." The 59-year-old Deane, who is now the university's associate vice-president (academic), was given a "leave holiday"—an enforced year off school.

That was the old way: sink or swim, and don't expect anyone to throw you a life preserver. But in recent years, universities have become far less cavalier about the first of their freshmen. One of the most obvious changes is in the way annual student orientation sessions are structured. Once little more than an initiation to parity, a typical orientation is now a multi-day affair that includes workshops and seminars on such matters as study habits, time management and financial and career planning; several campuses also offer separate orientation sessions for freshmen. Incoming students typically meet in groups of 25 or 30, frequently led by older students who continue to act as informal advisors and mentors during the course of the year. The advice they give is often simple, but critically useful. "One of the best tips that I ever got was to be here now," says Kerrie Galgoczy, a fourth-year University of Alberta business student who currently acts as an orientation leader. "If you are not paying, learn to relax and enjoy it; and if you're in the library, focus on your studies. Don't always wish you were where you are not."

In addition to orientation programs, several universities offer accelerated courses that try to reinforce basic learning skills such as note-taking and library research, as well as helping students adjust to the university culture by giving them at least one class where enrolment is strictly limited. A pioneer in this field is the University of Prince Edward Island, which began to offer one such optional course, dubbed University 100, as early as 1986. Campus administrators were concerned about the poor retention rate of first-year students, then hovering around 65 per cent. They have since found that up to 80 per cent of students who take University 100 go on to complete their degrees.

Other institutions are taking innovative steps to dispel the first-year blues. The University of Guelph, which established a separate cohort of first-year students in 1994, tries to link students both socially and academically. In a program known as University College Connections, groups of students enrolled in the same program are clustered in residence, making it easier to form study groups and develop a sense of community. Each cohort of students is also assigned a "peer helper"—a returning student who can help newcomers adjust to university life.

The University of Manitoba is creating another cohesion first-year community. Many students usually have no clear

career path—or quickly discover that the one they are on is not to their liking. Switching streams, they often lose graduation credit for their courses. In a program known as University 1, launched last year, first-year students avoid that pitfall by choosing courses from different faculties that may be correlated enough their specialty when they do finally choose it. "When you are 18 or 19, it's very hard to know what you want to do with the rest of your life," says UI director Beverly Cameron. "This allows some breathing room." Cameron adds that the program may be serving as a recruitment tool: enrolment at the University of Manitoba was up more than six per cent during UI's inaugural year.



Galgoczy Clithorai: the youngest student at the University of Alberta

Most universities readily acknowledge their healthy self-interest in smoothing the first-year transition. But few have been as bold about making that link as Sudbury's Laurentian University. This fall, returning students were offered a 10-per-cent discount on tuition for every new student they convinced to attend Laurentian—as long as they agreed to show the newcomers around the campus and act as on-demand mentors for the rest of the year. The experiment appears to be working: Laurentian officials believe the recruitment rebate partly explains why the university is enjoying an 18-per-cent increase in first-year enrolment this fall. A handful of returning students, including Chantal Mayer, are paying no tuition at all, thanks to the number of newcomers they recruited. "I thought it was a great idea to help first-year students," explains Mayer, a fourth-year arts student. "And obviously, it's nice to get the free fare ticket." Sometimes, the personal touch pays unexpected dividends.

With Jason McCallister in Kingston and John DeBoer in Halifax

Laurentian offers returning students a tuition discount for each new recruit—as long as they act as on-demand mentors

Malloy, a second-year engineering student at Dalhousie University in Halifax, is currently taking several first-year courses that he flunked the first time around. "I had an 85-per-cent average in high school, but I didn't have to work for it," says Malloy. "You can get good marks in high school while still coasting. But if you don't have good study habits here, you're sunk."

For many students, that academic Rubicon comes when they receive their first semester midterm exam results. Often, grades are significantly lower than those in high school. "Midterms are the wake-up call for everybody," says Tajib Alshaykh, a fourth-year political science student and vice-president (academic) with the University of Alberta student union. "They either pull it together or they don't. I think back

a seminar about admissions to medical school with about 500 other students," she says. "The admissions person said that this is about half of the people who will apply for medical school, and of those, maybe 200 will get in. Looking around you, it's very intimidating to see how important people are."

Others, such as James Scammon, a third-year University of Alberta arts student, face challenges that the average freshman can scarcely imagine. Scammon's first priority this September was to locate one of the routes through campus with Otis, his guide dog. For the first time, he had to function in a classroom without the benefit of a special crutch: his guide dog. "Walking study room and writing rooms in Braille is a time-consuming process; a typical three-hour test takes Scammon twice as long. But the articulate 19-year-old is un-



Learning on the Front Lines

By John Schofield

In a borderless world, the hot new trend is experiential education

In the end, the deal came down to two shots of tequila on a cold Calgary afternoon. For boom, in the soft light of a push downtown restaurant, a Mexican trade official and a Canadian developer dickered over the details of a multimillion-dollar housing project in the state of Guerrero, just south of Mexico City. Strong in was Tulio Cisneros, a third-year University of Alberta business student on a co-op placement with Canada Mortgage and Housing Corp., writing as an expert consultant. As the negotiations reached a climax, the

gregarious Mexican official ordered a bottle of tequila and invited his prospective partner to imbibe. Cultural confusion ensued: the startled Canadian declined, the Mexican flowed, and for a few seconds the Spanish-speaking Cisneros worried that the whole project would die. Fearing the worst, he urged the Canadian to accept a drink and the deal was back on track. Not the sort of lesson typically taught in Business 101, but a valuable one just the same. "Co-op changes everything," says Cisneros, 25. "That's the biggest advantage—it gets you out there."

And out there is where a growing number of Canadian students want to be. Priced for the Internet Age, they represent a new generation of front-line learners, struggling to succeed in an increasingly borderless world. The pressure to connect classroom to careers has never been greater. Students, weighed down by debt, are anxious about the future; corporations, buffeted by competition, are crying out for knowledgeable grads. As universities compete to offer a widening array of learning options, traditional classrooms with one cranking drill are valued education. From industrial co-op programs—training academic skills with work placements—to internships and international exchanges, experiential learning is the hot ticket in academic enrichment. And the trend is expanding, now to include the integration of community service work with classroom in-



Agg is Peru last semester and at the University of Victoria (opposite) through travel, students gain know-how and "wow-ahs"

ternationalizing as well. Says David Turpin, vice-principal (academics) at Queen's University in Kingston, Ont.: "Canadian students come back totally transformed in their view of the world and how they can make a contribution to it."

In Canada, the University of Waterloo pioneered experiential learning, developing the country's first co-op program in 1957. Since then, the Ontario university has evolved into a global leader, with 80 co-op programs involving 10,000 students in 20 countries—about 60 per cent of its undergraduate student body. Today, 50 Canadian universities offer co-op programs, and more than 40,000 undergraduates are involved in work placements, according to the Toronto-based Canadian Association for Co-operative Education. Michael Bloom, principal research associate at the Conference Board of Canada, an Ontario-based think-tank, is a big fan of experiential learning. "Students gain both know-how and know-who," says Bloom. "You don't do that over the Internet."

But the high cost of co-operative education has been a barrier for some schools. Waterloo, which maintains a staff of 35 field co-ordinators to work with employers, spends \$23.5 million a year on co-operative education, and charges students up to \$3,200 extra over the course of their studies to generate additional financing. To save money, many universities limit co-op enrollment, usually choosing candidates on the basis of marks and through interviews. Wilfrid Laurier University in Waterloo currently restricts arts and science co-op programs to 10 per cent of the entire class, and 50 per cent for business. Still, the boom has prompted concerns that some schools may be using the co-op label without making the necessary curricular connection. "Students have to be very careful," says Ronald Mancini, director of co-operative education and career services at Quebec's Université de Sherbrooke, which runs the second-largest co-op program in the country. "Everybody and his mother is saying that they're doing co-op."

To match the experience, universities are expanding the number of overseas placements. Waterloo, Memorial University in St. John's, Nfld., and the University of Victoria lead the pack in providing international work. Last year, roughly 400 Waterloo students worked in co-op jobs in other countries, compared with about 150 from Victoria. In 1999, Memorial expects that 100 of its 1,800 co-op students will

internationalize. "We see experiential education as a critical component of the learning environment," says Martha Piper, president of the University of British Columbia in Vancouver. "It's what we have to do to prepare students for the 21st century."

As the new millennium dawns on a shivering planet, the international element is getting special emphasis. Besides offering opportunities abroad for Canadian students, academic leaders believe the effort to internationalize is critical to Canadian success in the global economy—and to the future of their own cash-strapped universities. All major industrialized countries are scrambling for a slice of the international education pie, one that experts estimate could be worth \$50 billion by 2010. But there's a strong academic argument for



Photo by John Schofield

From co-ops and internships to international exchanges, learning is taking place beyond the classroom

be placed in positions outside Canada, including Sweden, Australia and Chile. Bruce Lussader, director of co-operative education and career services at Waterloo, says that the engine of global business is helping to pave the way. "Most employers realize that business in general, and we should be part of that," Axel Messen, Montreal's new president, is clear about where his priorities lie: "I've done education our students for work in the global economy, we're not doing our job."

Gillian Stone is ready for the world. Since last year, the 22-year-old St. John's native has logged not one but two international placements as a co-op student in the ocean and rural architecture programs. At Rockwater Ltd., an offshore oil-and-gas services outfit based in Aberdeen, Scotland, she completed a study to determine whether the firm should buy a deepwater construction vessel. This year, she landed a four-month stint at a shipyard in Poland. There, Stone used computer-aided design programs to gauge the structural strength of bridges and cargo ships. "An employer is going to look at me and say, 'Wow, she worked for all these companies and got all this experience,'" says Stone, who hopes to design yachts. "No one in our class even

Sponsored by universities, employers and the federal department of foreign affairs and international trade, the exchange programs generally last from eight months to a year. The scheme traditionally caters to engineering and science students, but was thrown open this year to those from non-technical fields with an ability to speak Japanese.

University of Toronto science student Heather Graham is ample proof that those from various disciplines can benefit from international experience. The 27-year-old Toronto native studied in Grenoble, France, for eight months last year, thanks to an academic exchange agreement with the Université Pierre Mendès-France. Like most exchanges, the year abroad was affordable since it allowed Graham to pay her regular tuition fee and still apply for federal and provincial student loans. While the experience was rewarding, Graham says an academic culture clash persuaded her not to pursue graduate studies in France. Professors were distant and students were given little guidance. Then there was all that cigarette smoking. "People, including the profs, typically pulled away throughout lessons. The biggest benefit overall," he learned that I can take care of myself," says Graham. "It makes you adaptable."

At the undergraduate level alone, there are more than 1,600 similar exchange agreements connecting Canadian schools to universities in virtually every country around the globe. The problem is, universities have allowed too much to languish. The problem is, universities have allowed too much to languish, says Patrick Borbey, director general of international cultural relations with the federal department of foreign affairs and international trade. "Institutions have trouble," says Borbey, "that if you don't have regular exchanges behind the fancy agreements, then what's it really worth?"

But academic leaders say the growth in ties is poor funding. According to the Ottawa-based Association of Universities and Colleges of Canada, the federal government spends the equivalent of 80 cents per capita annually on international scholarship and exchange programs, compared with 89 per capita spent in Australia, which has made international education a cornerstone of its economic development strategy. In June, British Prime Minister Tony Blair kicked off a \$12-million, three-year campaign to increase Britain's share of the world market for university students from its current 17 per cent to 25 per cent by 2005. Last year, Canada made another similar effort, dubbed *Educare*.

Canada made modest inroads in 1995 when it launched the first of 15 Canadian Education Centres in Asia and Latin America, funded jointly by the federal government and a host of educational institutions, including 48 universities. But critics say that is not enough. To pick up the slack, Canadian schools have stepped up their own recruiting efforts abroad. Montreal's McGill University currently boasts the largest



proportion of overseas scholars, at about 14 per cent of the undergraduate student body, and hopes to boost that to 25 per cent over the next decade. "Ten years ago, people were asking, 'If these students were a drain on our economy,'" says Kenneth Owsen, president of Saint Mary's University in Halifax. "But that's a very distinct past in bringing them here."

The benefits last long after students leave. Case in point: Ignace Kurmas, an Indonesian executive who graduated from Vancouver's Simon Fraser University in 1986 with a bachelor's degree in business administration. As the president of Herts, Indonesia's largest supermarket chain, Kurmas' Canadian connection has a lot to do with why shoppers can find maple syrup and McCain peas on his store's shelves. Kurmas says he was attracted by the quality of Canadian schools and their lower cost compared with the United States. And Canadian degrees are an even bigger bargain now, thanks to the weak dollar. "Canada," says Kurmas, 36, "has a very good reputation as a place to go to school."

University leaders say that, in turn, overseas experience should be more accessible to Canadian students. To that end, the ADCC has teamed up with five other national organizations to pool Ottawa to adopt a comprehensive plan. At the heart of the scheme is a quota of bursaries ranging from \$5,000 to \$4,000 apiece to eventually raise the proportion of postsecondary students participating in exchanges to 10 per cent per year. Fewer than one per cent of university students—or about 5,000 a year—currently sign on for such programs. Says Karen McBride, ADCC's director of international relations, "If we don't give students the opportunity to function in an international environment, we're doing ourselves a great disservice."

Whether it's an overseas exchange or a co-op work term, the hard reality of campus life here made the quest for a world experience all the more compelling. In recent years, tuition has skyrocketed, and the average student debt, after

Cineplex in Calgary: a crash course in the etiquette of international business

a four-year degree, sits at \$25,000. For many, finding a job immediately after graduation has become a simple matter of survival. Co-op improves those odds, and the wages from work placements help cushion the financial blow during university. In a five-year program involving three work terms, the pay-off rings in at \$20,000 plus. Emma Agge, a fourth-year co-op biology student at the University of Victoria, has had placements ranging from the entomology department at the Royal British Columbia Museum to a children's rehabilitation clinic in

Leina. "Besides the experience," says Agge, "the biggest benefit is that it's allowed me to pay for university. I haven't had to go on student loans."

For a process five, experiential learning has provided even richer awards. Andrew Jones, a co-op engineering science student who recently graduated from Simon Fraser University, hit the jackpot this year when Herts Inc. Technologies Ltd., the Vancouver high-tech firm he worked for in 1996, was awarded by a U.S. firm for \$417 million. During his placement, Jones convinced founder Steve Mitchell to let him in on a new employee stock option plan. He received several thousand dollars and watched it balloon to its figure this year. Says Jones, 25, who has returned to the company as a full-time employee: "It was a unique combination of luck and a very bit of foresight."

Co-op isn't for everyone. Some students find the frequent moves are a financial drain, or too disruptive to study. Placements aren't always suited to the student's area of study. Sometimes, the experience only confirms which career direction to avoid. But being proactive can make a difference. "A lot of the time, it's up to the student," says Aaron Leims of Vancouver, a 22-year-old co-op computer engineering student at Waterloo who has worked for Rancon Group PLC, Novatel Networks Corp. and Novation Labs Corp., a Silicon Valley hardware and software design firm. "You have to define for them what you're capable of doing."

It's that sort of savvy that scores points with employers. And even more why co-op is particularly attractive to companies in brutally competitive sectors such as high technology, where it is critical to stay on top now. Basically, it's a four-month snow-month talent pool. "Basically, it's a four-month snow-month talent pool," says Michael Werry, a Waterloo student and co-founder of Novation Labs. "It's a recruitment strategy." But increasingly, companies are opting for 12- to 16-month paid apprenticeships over four-month co-



Stone at Montreal, director of a future designing yacht

thinks they won't get a job when they graduate."

For some advocates of experiential learning, employment is the ultimate payoff. The demand for engineering and business students with international experience is not too high, especially for those with more than one language. But international exposure of any kind makes students more marketable, regardless of their discipline. Co-op Japan, the only national program of its kind, links about 50 students a year with some of the biggest names in global business: Sony Corp., Toshiba Corp. and Hitachi Ltd., to name a few.

OPTING FOR EXPERIENCE

Canadian university students enrolled in co-operative education, including international placements

1976-1979	10,252
1980-1989	25,502
1990-1998	40,576

Source: Canadian Council on Education Statistics



In many cases, co-op can be seen as a four-month interview—a corporate recruitment strategy

op placements—especially in the high-tech sector, where training takes more time. Celconix Inc., the Toronto-based electronic-parts manufacturer, dropped co-op students entirely in 1996 because their placements were too short. It now takes about 110 interns a year from eight universities, including York, Dalhousie and Queen's. At the end of their terms, up to 70 per cent receive full-time job offers. "The longer they're there, the more responsibility you can give them," says Wayne Phillips, a human resources manager at Celconix. "It's like having a mini-career."

Once the exclusive preserve of technical programs such as engineering, business and computer science, internships and co-op programs are increasingly expanding into arts and pure science. Before co-op came into her life, USC English student Laura Francis-Lamb worked a steady diet of cuban's jobs. Now, her résumé boasts four months as a communications officer with the B.C. Forest Practices Board, and her current job as an assistant policy analyst in Ottawa with Western Economic Diversification, a federal economic development agency. "Once you know what skills are needed in the workplace, I think it really goes as an edge."

But the overriding emphasis on jobs drowns some academics. In her 1997 book *The Betrayal of Intellect in Higher Education*, author Mohammed Naguib Rahman contends that universities have sold out to the vocational and technical demands of industry. As a result, argues the retired psychology professor from the University of Prince Edward Island, intellectual literacy is being undervalued. A 1995 study of co-op programs by Statistics Canada may bear this out. Fewer co-op students reported that their programs improved their writing and speaking skills than did non-co-op students. It is "diffi-



USC's Francis-Lamb: an English student with a critical edge

cult," writes Rahman, "to find a reasonable receptivity for liberal education in a technical society." Fred Gillett, president of Lakehead University in Thunder Bay, Ont., believes that universities fail if they simply set out to prepare students for the job market. "Sell," he argues. "I think anything we can do to enhance the opportunities for personal growth are positive."

But experiential education is not all about business and work. Schools such as UBC and St. Francis Xavier University in Antigonish, N.S., are delving into so-called service learning, which integrates community service projects into the curriculum. In the United States, service learning has eclipsed co-op as the fastest-growing form of experiential learning. At St. Francis Xavier, students can participate in Third World development projects as part of their course of study. At UBC, volunteer work focused on Vancouver's depressed Downtown Eastside will eventually be incorporated into the curriculum. "We need to educate future citizens not only to be knowledge workers," says UBC's Martha Ryer, "but knowledge servers."

There is no doubt that experiential learning is revitalizing university interaction. But no one has to remind the Chikanboom Co-opers what it's worth. Earlier this year, his supervisors at Canada Mortgage and Housing Corp. made him an extraordinary offer. When they asked, would it be to keep him on board? Coopers reminded his co-op bosses that he had another year left at the University of Alberta. Their response: CMHC is opening an office in Edmonton this January so that Coopers can finish his degree while continuing in their employ. Call it a win-win situation for all concerned.

STUART ROSS



Lennox (left) and Leibe at Ryerson: a world leader in co-op

With Warren Coopers in Jakarta



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The Castle Connection

By Barry Cane

Like any medieval castle worthy of its name, Hermonceux is haunted. Not one but two ghostly apparitions roam the ancient ramparts, bear glimpsed, ramour has it, on crisp nights in autumn. When the leaves on the towering chestnut by the most turn yellow, the Grey Lady will sometimes appear, drifting silently along in the company of a white dove. More chilling yet is the draught, said to be three metres tall, even without his head. He parades the castle's southern battlements, baring an eerie torso to mark his nightly pace. "Spooky, isn't it?" asks Sarah Gibson, shivering deliciously as

moments, crisscrossed along with Gibson in undergraduate study within the 15th-century palisades of Hermonceux in England's East Sussex. And like the 23-year-old from Brockville, most are Canadian drawn largely from Queen's University in Kingston, Ont. But there is a sprinkling of Americans, a small contingent of Japanese, and a larger one from four other Canadian universities—Dalhousie University, University of Toronto, the University of Western Ontario and the University of British Columbia. All are willing participants in a unique experiment in advanced learning, an intensive scheme that Greg Lessard, resident director of academic programs at Hermonceux, likes to call "a work in progress" designed to "open a window on the world" for these eager students to grasp the opportunity. "We're trying to give our students an international immersion course," says the affable 46-year-old professor of French. "We do this by combining classroom discussions with a pretty intensive round of weekly hands-on field study, both in the United Kingdom and across the water in continental Europe." Lessard delivers the remarks with a gesture out a lofty cut-glass window, looking down across Sussex's rolling southern downs towards the English Channel, a mere seven kilometers distant. "I think you'll agree," he adds with a grin, "that we're providing them with a rather unique medieval environment."

Hermonceux is indeed special. The site itself, 100 km

The most a venture
with an university

southeast of London, has been inhabited for thousands of years. Just down the road at Pevensey lie the crumbling remains of a Roman fort. The place is recorded in the *Domesday Book*. Within the Conqueror's survey of the properties he acquired when his Norman troops defeated the Saxons in nearby Hastings in 1066. By the 17th century, there was a minor house on the grounds, the seat of a noble family called de Hume. The estate with date from 1461, when Sir Roger Penne was permission from King Henry VI to "inclose, crenellate, enwower and embattle" his manor. The resulting castle has changed hands many times through the years. Earlier this century it housed the laboratories and telescopes of the Royal Greenwich Observatory. In 1993, it was acquired by Queen's, the result of an outright gift from a former student, Alfred Butler. A Vietnamese Jew married in Canada as an "every day" during the Second World War, Butler bought the castle and the surrounding 200 hectares of grounds for \$8 million pounds and gave it all to his alma mater as a gesture of gratitude for accepting him as a penniless student. He had been turned down by both McGill and the University of Toronto.

In 1994, Queen's opened what the university calls the International Study Centre at Hermonceux—but not without considerable negotiation on the part of the school's budget-conscious authorities. "It was tough at first," admits David Tarjia, vice-principal (academics). "When we started it was a cost, no doubt about it." Five years later, the cost not only paid it own way but also contributes to the university's overall revenues. Precisely how much, Tarjia will not disclose. "Universities don't make profits," says Tarjia. "But Hermonceux will make enough this year to cover its \$5-million budget, as well as fund a lot of the other real things we are doing there." Tithing and fees—\$19,000 per student—pay some of the bills. The real moneys from Hermonceux Enterprises, a business venture that runs the castle for conferences, leases the Greenwich Observatory's former telescope, earns fees teaching English as a second language in foreign studies and charges for public guided tours. Even the 200-bed student residence doubles as a bed-and-breakfast during the summer.

But it is university-level education that remains Hermonceux's prime objective. And on that score, there are few complaints from either the students or the 23 faculty members. The student body is divided into two basic components. Roughly 100 of the undergraduates are first-year students, all of whom will spend their entire academic year at the castle. Most of the rest are further into their university studies, either upper-level international exchange students or participants in the fledgling Canadian University Study Abroad Program. Launched in 1997, CUSAP is a collaboration by Queen's,

Dalhousie, Toronto, Western, UBC and McGill University. Under the scheme, their partner universities share program development as well as credit and grade transfers. Both the CUSAP students and the exchange undergrads will spend one three-month semester at Hermonceux.

All follow the same routine, however, spending Mondays on Thursdays in classes at the castle, with Fridays and Saturdays devoted to field studies, trips around Great Britain or across the nearby Channel to visit sites of historic, cultural and economic importance in continental Europe. There are, as well, trips of longer duration. Late last month, the entire castle shut down for a week as the first-year students headed north through England to Scotland while the upper-year classes travelled to Paris and Brussels with stops at First World War battle sites in Flanders and working visits to the headquarters of the European Union and the North Atlantic Treaty Organization.

Judging from the mid-way students' reactions, both ventures were successful. For Patrick McNally, 19, a first-year Queen's philosophy major from Simcoe, Ont., the high point of his trip was the opportunity to attend a session of Scotland's new regional parliament in Edinburgh. "We've been studying the whole ongoing process of political devolution that the British government has embarked upon," he explains over lunch in the castle's cossy common hall. "To see it all in action, happening right before your eyes, really brings the lessons home."

Much the same happened with Brockville native Gibson, who recently earned a B.Sc. in health sciences at Queen's, but stayed on for another three months to attend classes at Hermonceux. She was struck by the immediacy of the briefings at both the EU and NATO headquarters. "It really comes alive for you," she remarks. "Not the same thing as all in the dry stuff you get in a classroom."

Both McNally and Gibson are products of the learning that Hermonceux provides. "These kids are transformed by what they see and hear abroad," says Tarjia, pointing out that fully 17 per cent of the university's graduates can now boast international study experience. "We're getting a very different type of graduate than we did a decade ago." For that, under the old haunted castle on the English countryside. Even now, it is still working wonders. ■

Students on the grounds cultural and historical field trips, plus fun of \$15,000

At ancient Hermonceux, an experiment in cultural immersion is taking students by storm

she recounts the tales. There is, she remarks, eyebrow raised in awe, nothing quite like it back home in Brockville. One. "There are so many stories here, so much history." She pauses to run an admiring glance out across the moat towards the crenellated walls and soaring towers, then sighs. "What a place to go to school."

Few of Gibson's classmates disagree. There are 134 at the



Saint Mary's apples Academic varsity teams have never been more marketable

the finals, the upside is obvious: a couple of hours of free national promotion with a cream audience—potential benefactors, older high-school students and parents searching for a school that seems to comply all they want for their offspring. “Anyone you can hit the national sports scene, the university reaps the benefits,” argues Tom Allen, athletic director and head football coach at Bishop’s University in Lennoxville, Que. As proof, he cites his school’s increased draw from Nova Scotia—a trend he believes is connected to the success of Bishop’s men’s basketball team. Since 1997, the team has played at the national championships in Halifax each year.

If some university administrators find it hard to quantify the value of increased visibility for their sports teams, few seem willing to discount it. Recently, Toronto’s York University and the University of Waterloo in

Kitchener, Ont., have tried to strengthen their football teams. At Concordia University in Montreal, where the Stingers football team has consistently ranked in the country’s top 10, officials say that beefing up the sports program is as much part of their public relations strategy as ads on television or in national print media.

Still, not all universities are pouring money into varsity sports. Under intense fiscal pressure, universities have been going through endless soul-searching, trying to decide which sports programs they can afford. Adding to these headaches is increased pressure to fund more women’s teams, to reflect that more women than men are enrolling in Canadian universities. Some, like Ottawa’s Carleton University, have simply lowered the bar: earlier this year, students opted to skip the school’s football team, rather than pay an extra fee to keep the program alive. Others are asking their sports programs to pay for themselves. The University of British Columbia raises its own funds for operation by renting out its facilities, offering programs to the community—including summer sports camps—and managing its own food service. (A portion of students’ fees goes towards the funding of athletic services and the maintenance of buildings such as stadiums.) Edmonton’s University of Alberta backs its sports budget entirely on student fees and various fund-raising efforts. Even so, it managed to send 16 teams to CAAU championships last year.

Some universities are rethinking the entire role of athletics in campus life. “Until the early 1990s, the attitude here was that we should concentrate on a small number of sports,” says the University of Toronto’s Kild. “Now, the focus is on ensuring that all students can use sports and recreation to enrich themselves.” Since Kild took the job four years ago, the number of teams receiving varsity funding has increased from 16 to 43, even as the budget for intercollegiate athletics has dropped to \$1.1 million for the 1999-2000 academic year.

away from the United States, where scholarship athletes—including many from Canada—routinely pack mainstream stadiums. But across the nation, administrators are waking up to the fact that a top-notch hockey or basketball team can do more for a school than give it bragging rights over a cross-conference rival. Anyone who has ever sat in the bleachers during a late-season playoff game knows full well that sports can work wonders for campus morale. But who could have imagined that winning the Varsity Cup might help convince a Bay Street stockbroker to lend financial support? Or that smart high-school seniors would actually focus on extracurricular programs when choosing a university? Bruce Kidd, a former Olympic middle-distance runner, now dean of physical education and health at the University of Toronto, says, “Even the most outstanding students now realize that athletics is an important component of their overall development.”

Why are sports suddenly seen as a selling point for Canadian universities? The root reason is the harsh reality of today’s educational marketplace. After years of underfunding, competition to attract and keep students is as hot as carbon—until any edge in making a school’s visibility is welcome. Thanks to a television deal signed last year, with an estimated \$3 million over five years, Canadian university sports have never been more marketable. TSN, the cable sports network, now broadcasts CAAU finals in men’s and women’s hockey, basketball and volleyball, as well as semifinals and championship games in men’s football. The Varsity Cup—campus football’s top trophy—is the major television draw, with some 250,000 viewers. But Canadian university sports is a definite revenue for the network. “The audience tends to be in the 18 to 43 age-group,” points out TSN spokesman David Rosenbloom, “which just happens to fit our target audience perfectly.”

For schools with the talent and good fortune to make it to

Field of Dreams

By John DeMott

On crisp fall Sunday afternoons, the Halifax Stadium at Saint Mary’s University is often the hottest ticket in Halifax. Field level is manic: the crowd roars, the band wails. Every time the football score scores, a military cannon fires and the rabid, pained fans who make up the cheerleading Dog Pound haul themselves, face-first, down the grassy slope to the end of the field. The best seat in the house is the president’s lounge: visitors have a double view of both the field and the basketball court, where the defending Canadian Interuniversity Athletic Union men’s basketball championship game games Saint Mary’s president Ken O’Connell, his staff and faculty rub shoulders with the usual collection of sponsors, jocks, school alumni and student leaders. But the crowd is also well-coached: with business benches, seats, for good measure, professional camera operators or

federal members of Parliament. The reason is simple: Saint Mary’s needs new students and funding in much in the next school year. And what better way to sell the university than to show it pulsing with spirit? “It is a great opener,” admits O’Connell. “It is up to you to exploit it.”

Anyone looking for a perfect example of how the role of sports has changed on Canadian campuses could do worse than consider Saint Mary’s. When O’Connell arrived 20 years ago, he inherited a school known—rightly or wrongly—for valuing its performance on the playing field over excellence in the classroom. How times have changed: the conservative old jock school is now known as an academic innovator. And the storied men’s teams are now valued for their ability to raise the school’s profile.

Make no mistake: Canada is still high-tech

In the battle for students and funding, sports has emerged as a star player

The Maclean's Directory

Every university in the Maclean's survey has a unique history, a distinct mission—and its own particular strengths. The student numbers below refer to the 1998-1999 academic year.

ACADIA Wolfville, N.S. (1808)
Full-time students: 3,353
Part-time students: 357

ALBERTA
Edmonton, Alta. (1906)
Full-time students: 26,114
Part-time students: 4,173

BISHOP'S
Lamontville, Que. (1843)
Full-time students: 1,929
Part-time students: 597

BIRCHMOUNT
Brimley, Man. (1899)
Full-time students: 1,638
Part-time students: 940

BRITISH COLUMBIA (B.C.)
Vancouver, B.C. (1908)
Full-time students: 24,583
Part-time students: 8,203

BROCK
St. Catharines, Ont. (1864)
Full-time students: 6,509
Part-time students: 3,944

CALGARY Calgary, Alta. (1966)
Full-time students: 20,018
Part-time students: 4,291

CAPE BRETON (C.B.)
Sydney, N.S. (1974)
Full-time students: 2,715
Part-time students: 457

CARLETON
Ottawa, Ont. (1942)
Full-time students: 12,376
Part-time students: 2,487

CONCORDIA
Montreal, Que. (1974)
Full-time students: 12,485
Part-time students: 12,479

DALHOUSIE
Halifax, N.S. (1818)
Full-time students: 14,193
Part-time students: 1,576

GUELPH Guelph, Ont. (1964)
Full-time students: 15,773
Part-time students: 1,941

LAURENCE
Thunder Bay, Ont. (1966)
Full-time students: 5,308

Part-time students: 1,277

LAURENTIAN
Sudbury, Ont. (1960)
Full-time students: 3,999
Part-time students: 2,026

LAVALL Quebec City, Que. (1863)
Full-time students: 20,507
Part-time students: 12,741

LETHBRIDGE
Lethbridge, Alta. (1967)
Full-time students: 4,712
Part-time students: 798

MANITOBA
Winnipeg, Man. (1877)
Full-time students: 16,264
Part-time students: 4,774

MCILL Montreal, Que. (1825)
Full-time students: 20,544
Part-time students: 3,790

MCMASTER
Hamilton, Ont. (1887)
Full-time students: 13,787
Part-time students: 2,951

MEMORIAL
St. John's, Nfld. (1925)
Full-time students: 12,815
Part-time students: 2,582

MONTCLAIR
Montclair, Edmondston and
Shippagan, N.B. (1963)
Full-time students: 4,593
Part-time students: 1,430

MONTREAL
Montreal, Que. (1878)
Full-time students: 29,020
Part-time students: 15,894

MOUNT ALLISON
Saskville, N.B. (1836)
Full-time students: 2,238
Part-time students: 273

MOUNT SAINT VINCENT
Halifax, N.S. (1873)
Full-time students: 2,130
Part-time students: 1,598

NEW BRUNSWICK (N.B.)
Fredericton and
Saint John, N.B. (1785)
Full-time students: 9,526

Part-time students: 2,371

NEPISING
North Bay, Ont. (1960)
Full-time students: 1,785
Part-time students: 1,703

NORTHERN BRITISH COLUMBIA (N.B.C.)
Prince George, B.C. (1994)
Full-time students: 2,158
Part-time students: 1,025

OTTAWA
Ottawa, Ont. (1844)
Full-time students: 16,826
Part-time students: 8,525

PERCE EDWARD ISLAND (P.E.I.)
Charlottetown, P.E.I. (1969)
Full-time students: 2,217
Part-time students: 480

UNIVERSITÉ DU QUÉBEC A MONTRÉAL (U.Q.M.)
Montreal, Que. (1969)
Full-time students: 15,364
Part-time students: 18,156

QUEEN'S
Kingston, Ont. (1841)
Full-time students: 13,433
Part-time students: 2,029

REGINA
Regina, Sask. (1974)
Full-time students: 8,411
Part-time students: 3,158

RYERSON
Toronto, Ont. (1948)
Full-time students: 10,295
Part-time students: 10,913

ST. FRANCIS Xavier
Anglophone, N.S. (1863)
Full-time students: 3,693
Part-time students: 565

SANT MARY'S
Halifax, N.S. (1802)
Full-time students: 5,013
Part-time students: 2,303

ST. THOMAS
Fredericton, N.B. (1940)
Full-time students: 1,896
Part-time students: 265

SASKATCHEWAN
Saskatoon, Sask. (1907)
Full-time students: 14,253
Part-time students: 2,037

SHERBROOKE
Sherbrooke, Que. (1954)
Full-time students: 9,965
Part-time students: 5,610

SIR JOHN FRASER
Burnaby, B.C. (1963)
Full-time students: 10,828
Part-time students: 8,115

TORONTO
Toronto, Ont. (1827)
Full-time students: 40,420
Part-time students: 13,281

TRINT
Peterborough, Ont. (1965)
Full-time students: 3,784
Part-time students: 1,151

VICTORIA
Victoria, B.C. (1963)
Full-time students: 11,426
Part-time students: 5,797

WATERLOO
Waterloo, Ont. (1957)
Full-time students: 17,568
Part-time students: 3,100

WESTERN ONTARIO
London, Ont. (1878)
Full-time students: 21,778
Part-time students: 4,012

WILFRED LAURIER
Waterloo, Ont. (1911)
Full-time students: 6,520
Part-time students: 1,893

WINDSOR
Windsor, Ont. (1857)
Full-time students: 9,987
Part-time students: 2,955

WINNIPEG
Winnipeg, Man. (1871)
Full-time students: 4,132
Part-time students: 1,513

YORK
Toronto, Ont. (1959)
Full-time students: 27,835
Part-time students: 8,200



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Air Canada Wins the War

Thwarted by a court decision, Gerry Schwartz drops his bid to merge Canada's two national carriers, leaving the ball back in Ottawa's court

By Kimberley Noble

As quickly as it all began—in that flurry of sweeping statements, grand gestures, complicated attacks and even more inconceivable counterattacks—it was suddenly all over. The 10-week battle for control of Canada's two largest airlines ended abruptly last Friday afternoon, with a Quebec Superior Court ruling that Gerry Schwartz's Oneworld Corp. would be violating the law if Air Canada shareholders allowed it to take possession of more than 10 per cent of the Montreal-based carrier in order to merge it with real Canadian Airlines International Ltd. of Calgary. Within the hour, Schwartz had pulled out, and Air Canada chief executive officer Robert Milne was congratulating his company's executives, shareholders and employees. Milne managed to make it sound as though their victory was attributable more to managerial brilliance than to good lawyers or good luck.

So what happens next? As we back where we started? Has this whole "unfortunate" process, as Boston-born Milne likes to call Air Canada's brief bout with shareholder democracy, accomplished anything for the people who own, work for or fly on the nation's two major carriers?

That's hard to tell. For now, it appears that Air Canada employees and management and its Star Alliance marketing organization, led by UAL Corp., parent of United Airlines, and Deutsche Lufthansa AG, have emerged as the clear winners. Air Canada shareholders gain on the mainboards (a \$16-a-share buyback for 36.6 per cent of their stock, a deal that is

largely financed with \$730 million from UAL and Lufthansa), but lose something on the wings (the only substantial capital appreciation they have seen since shares of Air Canada were sold to the public in 1988, gains that were destined to start evaporating this week).

The bridesmaids, Schwartz and Toronto-based Oneworld, come out bruised. They have a higher profile and an estimated \$90 million in buyback money to show for their pains and expenses, but they don't have what Schwartz really wanted, which was to finally show the world that his \$11-billion buyout company could close the big deal.

The losers are the employees, shareholders and creditors of Canadians, which faces debts or dismemberment unless AMR Corp. of Fort Worth, Tex.—the parent of American Airlines and Canada's largest shareholder—is willing to keep bailing it out. On its offer, Air Canada proposes to buy Canadian for \$92 million, take over some foreign routes and turn it into one to discontinue carrier. Also on the loser list: Canadian Auto Workers union president Bob Higgins, whose decision to back Oneworld enraged the CAW's Air Canada members who, unusually, began raising funds for disaffiliation.

The economic implications for airline passengers is another issue. If it accomplished nothing else, the Oneworld campaign sounded the death knell for Ottawa's two-airline policy under which the federal government acted as a referee to



Air Canada jet at Pearson airport in Toronto. Schwartz (far left) blames the battle produced more than a dozen winners

make sure Air Canada and Canadian both survived, competed and dived up national and international business. Those days are over. Now, everybody, from federal Transport Minister David Collier to an ad-hoc, talks about Air Canada as if it already has a monopoly. The only question, according to one of the dozens of investment bankers who worked on the airline deals, is who will ultimately end up running the show—

"the same old ideas or a new bunch of ideas."

He had been betting that shareholders would pick the new guys, Oneworld and partner AMR. But they ran up against Air Canada's 10-per-cent ownership law. That provision was put in place by the Mulroney Conservative government in 1988, not as a defence against foreign ownership—as is now widely assumed to be the case—but to protect the newly privatized Air Canada from potential corporate raiders and to prevent a large shareholder from moving the airline's headquarters out of Montreal. Oneworld thought it could circumvent the 10-per-cent statute by electing a new board of directors and temporarily converting Air Canada common shares to a new class of stock with reduced voting rights. Oneworld argued that no one would actually control the airline until Parliament got around to lifting the 10-per-cent rule.

Not so, Air Canada replied. The device would still be illegal, because for some brief period of time—"a minute or an hour or a day," as an Air Canada lawyer put it—more than 10 per cent of the voting shares would belong to Oneworld and its associates.

The court agreed—albeit reluctantly, according to Quebec Superior Court Justice André Rivest. "This intervention is not an attempt to mangle in corporate affairs which normally are better dealt with in the boardrooms of Canadian corporations," he wrote. "Rather, it aims at making way for the protection of the shareholders that Aerco (Oneworld)

offer is handled within the confines of existing laws."

Any notion that Schwartz, 57, a Winnipeg native who now lives in Toronto, would say for another month, were dispelled by the speed with which he conceded the fight. Only hours before Wey's decision, Oneworld announced it would withdraw its bid for \$100 million, for a total of \$2.2 billion or \$17.50 per Air Canada share. After the ruling, Schwartz quickly killed a much-anticipated note on Oneworld's offer by Air Canada shareholders. "We will respect that decision," he said, "and accordingly have instructed counsel that our offer and our resolutions at next Monday's shareholders' meeting be immediately withdrawn."

There was speculation that Ottawa might clear the way for Oneworld to make another bid by quickly amending the Air Canada Public Participation Act of 1988. Oneworld's court on its Collier to be willing to talk about changing the 10-per-cent rule as long as Oneworld and Oneworld's institutional shareholders were willing to lead the way and take the risk. But since the court ruled and Oneworld threw in the towel, Collier stopped sounding like a minister who was anxious to make transportation history and started talking vaguely about how he would work with Air Canada to ensure that the issue-to-be "dominant carrier" acted in the public interest.

In addition, Schwartz and his team are known, and even admired, for walking away from takeover targets when the risks outweigh the anticipated rewards. This happened in 1995, when Oneworld sought to buy and reorganize the hotel and entertainment conglomerate John Labatt Ltd. Management fought back then, too. Schwartz walked away. Clearly, being forced to admit defeat at the airline battle is an even deeper disappointment. In September, Schwartz told *Maclean's* that if this deal failed, "I'd take it terribly personally. It would hurt. But we'll dust ourselves off and we'll come back." People who know him agree—it's not Gerry Schwartz's style to linger on the sidelines. They expect he will return to the fray—not for Air Canada, for some other, huge, corporate quarry. ■



The trouble with Martha

There are several reasons for regular morals to dilute Martha Stewart, the domestic goddess and one-woman conglomerate. You might resent the irritating ease with which she whips up gourmet meals. Perhaps her nifty craft suggestions, or her surprising morals, "And that's a good thing," stick in your craw. But the last reason to take umbrage with Ms. Stewart is the deceptive facility of her recent initial public offering of stock in Martha Stewart Living Omnimedia Inc. On Oct. 19, it went public on the New York Stock Exchange at \$18 (U.S.) a share. Within minutes, it was trading at a 160-per-cent premium.

Although this may be a more dangerous grade to express, the World Wrestling Federation Entertainment Inc. also went public the same day. Like Martha Stewart's, the WWF issue soared because of strong brand-name recognition and crossover appeal.

But the remarkable performance of these recent floos is far from representative of the typical IPO experience. According to money manager David Dussell of Toronto Capital Markets Inc. in Toronto, about 80 per cent of all new stock issues quickly shed up to 50 per cent of their value. In fact, a recent survey indicated that of 74 IPOs launched since the start of 1998—each worth \$10 million or more—fewer than one in four had risen in price by the time the study was concluded on Oct. 25. "It's best to give IPOs at least a year to shake out their market value," Dussell advises "especially for the individual investor."

That advice is particularly relevant as year-end approaches: a host of companies are scrambling to go public before Y2K jitters rock the market and before investors are, in particular, of technology stocks. This week, the largest IPO ever is slated to take place in the United States when United Parcel Services of America Inc. issues more than 109.4 million shares and raises an expected \$6 billion in new capital. At least 70 other new issues are also expected to hit U.S. markets in November.

Although retail investors may not be aware of it, the dynamics of these deals work against them from the outset. There is a widespread assumption that the Internet is a great equalizer in capital markets, providing more and varied information to the average shareholder. But when it comes to IPOs, even the most progressive companies treat us asymmetrically, bedeviling relationships with investors' insiders.

That relationship comes at a steep price. Although new issues can be bought from a broker without a sales commission, the corporate finance fee of two to 10 per cent of the issue's value is included in the share price. Then, there is the

increasingly controversial tradition of the "road show," where managers of the company meet privately with institutional investors. At these meetings, senior executives often provide detailed performance targets and other material information not contained in the prospectus. This information often creates a bias in the investment community which allows the investment dealer to price the issue higher than it might otherwise—even though retail investors can't judge the information firsthand.

The practice of selling new stocks also deserves close scrutiny. To demonstrate good faith in the charts, underwriters typically acquire at least five to 10 per cent of an issue, which they then resell to their clients as quickly as possible. The pressure to move (primarily through the retail network) is often accompanied by recommendations by in-house research analysts—a conflict of interest currently under study by the Toronto Stock Exchange.

There are also other agendas at play that week against small shareholders. As in the case of Martha Stewart or the McMahon family, which controls the WWF, IPOs come to market so that private owners can obtain some liquidity for their assets. In other cases, the issue may be a way to realize value for insiders who hold various options. Although there is supposed to be a 180-day waiting period in American jurisdictions, there is still an inherent risk that significant blocks of equity may be dumped on the market in relatively short order, depressing the value of the shares held by others.

Yet another consideration with IPO investments, especially where several stocks in the same sector come to market in short sequence, is that many mutual fund managers are "indexing." That means they try to replicate the various weightings of the TSE 300 composite index or the Dow Jones industrial average within their portfolios. This forces new issues—one example is life insurance companies—to compete with one another for limited space within a prescribed second niche.

The final mark against IPOs is that, with a few exceptions, they tend to be deployed by small companies that trade in a more volatile manner, especially given the current market obsession with well-capitalized blue-chip stocks.

Sense traditions may die hard, but an overturn of the inefficient and unfair process surrounding IPOs is long overdue. It's about time that the interests of small investors and Boy Scouts were a little more closely aligned. After all, if Martha Stewart and the bone-crushing behemoths of the WWF can learn to use the same tools, so can the potential buyers who make "em—'or break 'em.

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Diamonds in the North

Environment Minister David Anderson gave the \$1.3-billion Diavik diamond-mine project the go-ahead to begin development. Despite opposition from environmentalists and aboriginals, Anderson said the mine, 300 km northwest of Yellowknife, is unlikely to cause significant damage. Production is slated to begin in 2003.

Toasting Seagram

Charles Brannstrom, co-chairman of Seagram Co. Ltd., settled his feud with nephew Edgar Brannstrom Jr., the company's chief executive, saying he now agrees with outlying Seagram and a firm largely focused on music and movies. In the past, Charles has criticized Edgar Jr.'s decisions, but in the past year Seagram's share price has doubled. Speaking at the annual meeting in Montreal, Charles also welcomed his son Stephen to the board.

Mickey takes Hong Kong

Walt Disney Co. said it will build a Disneyland theme park and resort in Hong Kong by 2007. Many analysts said Disney got the better of the deal, with Hong Kong investing \$4.3 billion in the project, more than nine times what Disney will pay out.

End of an era at GE

Recently dubbed "Manager of the Century" by *Forbes* magazine, Jack Welch, chairman of General Electric Co., announced that he will retire in April 2001. He has 18 years as chairman. GE's annual profit rose from \$2.4 billion to \$13.7 billion. During that time, Welch cut 100,000 jobs, earning him the nickname "Neutron Jack," after the bomb that kills people but leaves buildings unscathed.

The wave in fibre optics

JDS Uniphase Corp. of San Jose, Calif., will acquire Optical Coating Laboratory Inc. in a deal worth \$4.1 billion. Both firms make products to increase the capacity of fibre-optic networks used for the Internet. Last July, JDS filed for Chapter 11, retooled into a merger of equals with Uniphase Corp. Since then, JDS's shares have almost quadrupled in price.

Business Notes

Microsoft ruled a monopoly

Microsoft Corp. received a serious blow when U.S. District Judge Thomas Proffitt Jackson ruled that the world's biggest software manufacturer runs a monopoly. The decision, arrived at in one of the biggest antitrust cases of the century, opens the door to several possible sanctions against the empire built by Microsoft chairman Bill Gates. "Microsoft has demonstrated that it will use its prodigious market power and immense profits to harm any firm that insists on pursuing activities that could reasonably be considered competitive against one of Microsoft's core products," Jackson ruled. In response, Gates said that he and other Microsoft executives "respectfully disagree with a number of the court's findings."



Gates working to continue the fight

Jackson now has a number of options. He could order Microsoft to be dismantled, creating smaller companies to compete against each other. He could also order Microsoft to allow rivals to sell and improve its dominant Windows operating system, or prohibit the company from interfering with new technology that could threaten Windows. Apple is likely to keep the case in court, and delay any punishments, for several years.

The woes continue for YBM

The Ontario Securities Commission began proceedings—a so-called notice of hearing—against executives and 10 directors of failed YBM Magaes International Inc., including former Ontario premier David Peterson. YBM's lawyer and two brokerage firms that underwrote in 1997 stock issue arrest also appear in the Nov. 29 hearing. The once high-flying magnet maker went out of business and was delisted by the Toronto Stock Exchange last December amid allegations of ties to Russian mobsters. Peterson's lawyer vehemently denied any wrongdoing.

Financial outlook

The job market posted its second consecutive strong showing in October, with the unemployment rate tumbling to 7.2 per cent, Statistics Canada

reported. It was the lowest jobless rate in almost a decade. Full-time employment was up 85,000 in October. Manufacturing was particularly strong, with the most notable gains in computer and electronic products, and motor vehicles and parts.

With the economy nearing its full output potential, supply constraints in some industries could fuel up inflation, said Scotia Economics analyst Mary Webb. This in turn, said Wells, increases the likelihood of the Bank of Canada raising an encroaching interest rate if the U.S. Federal Reserve hikes its own rate when it meets on Nov. 16.



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Business Notes

The prescription for being a giant

Pharmaceutical giant Pfizer Inc. of New York City made a surprise \$122-billion offer for Morris Plains, N.J.-based Warner-Lambert Co. just hours after Warner-Lambert had agreed to a friendly \$106-billion merger with American Home Products Corp. of Madison, N.J. Further deal would create the world's biggest maker of prescription drugs. Analysts say Pfizer's unadmitted offer raised expectations of a bidding war and further consolidation in the pharmaceutical sector. "This is pretty good news if you own drug company shares," said Hugh Johnson, chief investment officer at First Albany Corp.

The three companies are behind many common consumer products. Pfizer makes Viagra and the antidepressant Zoloft; Warner-Lambert produces the cholesterol-lowering drug Lipitor, and allergy drugs Benadryl and Sudafed; while American Home makes Advil, Robitussin, Chap Stick and the hormone replacement drug Premarin. A Pfizer takeover of Warner-Lambert would create a company with annual revenues of \$41 billion and a market capitalization of about \$295 billion.



Offending doll: Wal-Mart pulls its neck

WWF slammed

Retail giant Wal-Mart Canada followed its U.S. parent company's lead and removed from its store shelves a doll depicting World Wrestling Federation wrestler Al Snow carrying a woman's head. Snow is known for entering the ring bearing the head of a

female mannequin with "Help me" written backwards on her forehead. The toy, recommended for children aged 4 and older, drew complaints for being insensitive to the issue of violence against women.

Nortel grows

Nortel Networks Corp. of Broomfield, Ont., announced it will invest \$332 million in Canada to expand production of fiber-optic components used for the Internet and e-commerce. The country's biggest high-tech firm said it will create 2,300 new jobs in Montreal, Kinnis, Ont., and Niagara, Ont. The cash infusion is part of a \$996-million worldwide investment by Nortel, which will create 5,000 jobs in Canada, Britain, Ireland and the United States. The company's latest job plan contrasts sharply with a corporate restructuring announced in May, which led to the loss of about 500 Nortel jobs at manufacturing plants in Burnaby, B.C., and Belleville, Ont.

While Nortel had plans to hire more people, a loss a court battle in which it tried to prevent Sun Jose, Calif.-based Opnel Networks Inc. from suing as well. A Quebec Superior Court judge did, however, order 10 former Nortel employees now working for Opnel from divulging World's fiber-optic trade secrets. The workers were also ordered not to recruit former colleagues.

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Ross Laver

Is your house a 'wealth trap'?

What can you say about a man who spent barely four months as Canada's minister of national revenue—half that time on the campaign trail—yet has been boasting ever since that he's an expert on financial matters because he "ran the country's tax system"?

At the very least, Girth Turner has a flair for self-promotion. A former journalist whose moment in the political sun lasted only as long as Kim Campbell's 1993 Conservative government, Turner has since reinvented himself as a best-selling author and public speaker on the topic of personal finance.

Retirement is one of Turner's strong suits. Before he entered politics, he relied against the Goods and Services Tax and offered readers of his newspaper columns tips on how to avoid income taxes by opening a foreign bank account. As an MP, however, Turner morphed into a defender both of the GST and the tax system. "It's not fair that there are people who think they can get away with not paying their taxes," he complained shortly before losing his seat in the 1995 federal landslide.

These days, Turner has found another cause, as a *hambone* paid *pacheco* for the manual fund industry. He's written four books on personal finance, each saying essentially the same thing: that the housing market is headed for disaster early in the next century and that the best way for baby boomers to safeguard their futures is to leverage their homes and invest the money in mutual funds. He repeats this message in hundreds of speeches across the country at seminars paid for—*at thousands of dollars a pop*—by financial advisors and brokers. The sponsors, naturally enough, are looking for new clients. Turner's job is to attract a crowd and then convince those in attendance to sign up for a financial consultation. (He doesn't once work on that score. "This entire event accomplishes your goal, *care* you new clients and build your book, or it's simply not worth doing," he said in a recent pitch to the financial planning community.)

Turner isn't the only self-styled financial wizard who plays this game. Nor is he the only person to suggest that residential real estate is headed for a *crashdown* as boomers retire, sell their big city houses and move to smaller houses or rural retreats. David Fox, the economist and demographer, advanced much the same argument in his book *Blues, But Not Lites*, which is now banned from a U.S. study by two

Harvard economists. But what sets Turner apart is the desperation with which he exhorts Canadians to borrow against their homes and invest in the market. Of course, that's precisely why client-hungry planners hire him. Many baby boomers live from *pequeque* to *pequeque*, so the only way to get them to invest heavily in funds is to push them to go even deeper into debt.

The question is, does Turner's advice make sense for the rest of us? Is it true that residential property is destined to become, in his words, a "wealth trap"?

The answer, according to one Bay Street economist, is categorically no. Derek Holt, who works for the Royal Bank and has been studying the housing market and demographic trends since 1994, says the theory that house prices will plunge in 10 to 15 years is based on a flawed set of assumptions. While it's true that boomers represent the largest single age cohort in North America, they've also given birth to the second-largest. In Canada, those are 9.8 million people who were born between 1947 and 1966, and another eight million who are their children. Those boomer-echo kids will enter the housing market at a pace of between 360,000 and 400,000 a year for at least the next 20 years, Holt says, ensuring a steady supply of home buyers. Add to that a yearly influx of some 200,000 immigrants and the prospect of a prolonged and steady real-estate market, says Holt, is not a healthy growth in demand for new home construction for decades to come.

Holt's research undercuts a couple of other interesting facts. First, the demand for larger houses is driven by income and not by family size, which contradicts the theory that empty nesters will abandon their monster houses. In reality, the average size of a house has continued to increase in recent decades even though the average family size has dropped. Second, the proportion of seniors who do move to smaller residences is low and falling. The growing popularity of reverse mortgages—which allow people to remain in their homes and live off the equity—appears likely to reinforce that trend.

The Royal Bank economist is too much of a gentleman to criticize Turner by name, but the evidence is all there. If Holt is right, then the housing market is going to remain healthy, what will Turner do next—become a real estate broker?



Turner: real estate champion

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A vanishing memory

Canada has neglected its sacrifices in South Africa 100 years ago

By Robert Marshall

The first contingent of 1,000 troops sailed from Quebec City 100 years ago, on Oct. 30, 1899. Another 7,638 young soldiers and 12 nurses followed over the next 2½ years. Their destination: South Africa, to join British troops battling the Afrikaner republics of Transvaal and Orange Free State. By the time Britain prevailed in the Anglo-Boer War on May 31, 1902, the young Canada had paid dearly for its first involvement in a foreign war. At the front, 284 Canadians died in battle or from disease; another 252 were wounded. At home, tensions were heightened between French and English—Quebec opposition to supporting a British colonial venture at one point erupted into a three-day riot in Montreal. But a century later, as the nation again evokes the Remembrance Day rite, "Lest we forget," on Nov. 11, these first Canadian combatants are a distant, fading memory.

Declaring Nov. 5 to 11 "Veterans' Week," Veterans Affairs Canada called on Canadians to honour and remember the achievements and sacrifice of those who served the nation. "As we prepare to say goodbye to the 20th century," says a statement from the federal department, "our Veterans' Week theme that year will cover Canada's military history throughout the past 100 years—A Century of Valor." But nowhere does the statement refer to the sacrifices of the first Canadians to fight abroad for what they believed to be their nation's interests—precisely a century ago. Only now has Canada made a commitment to help maintain in the graves of the 261 Canadian war dead buried in



The Royal Canadian Regiment of Infantry in 1900, unknown grave

South Africa. Even so, a British representative on the commission responsible for maintaining the memorials to foreign participants in the war dismissed Canada's initial commitment of \$3,000 as inadequate.

The manager of the war graves division of South Africa's National Monuments Council, Joan Beare, says many of the Canadian graves are in well-

maintained municipal cemeteries. But the Canadian dead are scattered across 51 sites, including some on isolated farms. According to the council, in one cemetery in Pretoria, in Free State province, the lettering on five Canadian graves has virtually disappeared through erosion. Another isolated grave site in Mphahlanga province, in eastern South Africa, is so overgrown and neglected that the council has placed it on a priority list.

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History



Wounded Canadians at a field hospital at Passchendaele in 1917

'I can tell you we are coming to terms with our responsibility to remember these men and women'

look specifically at sites where there are Canadian graves," says Beare. "Some graves will require attention because they need to be maintained, and it's possible some graves in remote areas are worse off than we realise." It may be some time, she says, before the council is able to get to see all those sites and discover the extent of the maintenance needs.

This week, a delegation from Veterans Affairs is visiting South Africa and will begin the job of assessing what must be done to get all graves in good order. "I have made appointments to visit some of the sites," said Arndt Smith, director general of the department's commemorative division in Charlottetown. "We're of the mind that we are responsible for these graves."

Canadians who participated in the South African War did so as volunteers or in regiments funded by wealthy patrons or the British government. They acquired themselves well—at a battle in Little Barmah in 1900,

soldiers of the First Canadian Mounted Rifles and the Royal Canadian Dragoons won three of four Victoria Crosses awarded to Canadian troops during the war. Returning soldiers generally received a hero's welcome, and many communities erected monuments to honour the Canadian sacrifice. In 1902, a group led by Lady Munn, the wife of the governor general, the Earl of Munn, raised private funds to record and mark the graves of Canadian troops. The War Memorial Association project near 180



Canadian graves in a Pretoria cemetery, 1902

polished-granite headstones to South Africa, each marked with simple leaves and engraved with "Canada." At the time, says Smith, South Africa also received \$5,000 to care for the graves.

While Britain and Australia have contributed funds regularly for the upkeep of the graves of their dead, New Zealand and Canada have not. The matter came to a head last month when the Canadian High Commission

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received a letter from the South African government council inquiring about financial assistance. "We've said OK, and sent some money in an initial payment," says Smith, adding that the \$13,000 is just a start. The aim, he says, will be to make local arrangements for the upkeep of all sites, whether they

contain many Canadians or the graves of just one or two.

Acknowledging that Canada's participation in the South African War has not had their due recognition from Veterans Affairs, Smith cites several reasons. For one thing, and the collapse of the apartheid regime in 1990,

Canada had had limited relations with South Africa for many years. "Within South Africa, he adds, there was no infrastructure to ensure that all the graves were maintained. And despite the lives lost, Smith says, Canadians do not have the same kind of attachment to the South African War as they have to conflicts since then. For whatever reason, "we haven't done as much as we should have," says Smith. "I can tell you we are coming to terms with our responsibility to remember these men and women."

One symbolic step will take place this week at the Stellerwood Commonwealth War Cemetery in the South African city of Durban. There, Prime Minister Jean Chrétien will unveil a Remembrance Day cemetery while taking part in a Commonwealth heads of government meeting. Also on hand to honour Canada's "century of valour" will be representatives of the four main Canadian regiments that took part in the Anglo-Boer War.

In February, members of one of those regiments, Lord Strathcona's Horse, will visit South Africa to unveil a memorial in Lydenburg, in Mpumalanga province, to commemorate Canadians killed during the war. They will also unveil new headstones to commemorate two soldiers who previously did not have personalized markers. "With our new view towards relations with South Africa," says Smith, "we will see a more positive manner in commemorating the people who took part in that war."

But Canada's efforts will fall short of the mark, according to Justice Paquin, a member of the British war graves committee of the National Measurements Council. "With only these full-time staff members, the council can barely cope with its current workload, maintaining and maintaining 40,000 war graves across the country. "It is honest," she says, "53,000 is possible. A lot more could be done not only to maintain and monitor these grave sites, but also to make the locations more tourist friendly." With Canada turning a fresh eye to sacrifice made a century ago, the fallen appear to be about to receive their due—"Lost we forget."

With Ingo Gilman in Johannesburg



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Life after Monty Python

Eric Idle is as amusing as ever

Sometimes, Eric Idle cheerfully admits, *Monty Python's Flying Circus*, the classic comedy TV show he helped establish 30 years ago, is a brilliant around his neck. But there are other times "when Python works for me," says Idle, "and it's fabulous." Such was the case last July when he put on a sold-out charity performance at the J. Paul Getty Museum in Malibu, Calif., singing some of the more than 60 Python tunes he had written. "The audience sang along to everyone," says a still-impressed Idle. "They even called out for their favorites, like the *Lumberjack Song* and *Every Spoon Is Sacred*." He plans on taking the show on the road next summer, including a July stop in Tacoma.

Singing is only one aspect of Idle's current career. He has also landed a role on the television comedy *Saturday Night Live*, playing *Brooklyn South*'s new boss, Mr. 50, laughably over-the-top as he finally reaches a stage in his life when he can handle a sitcom's rigid rules. "I'm older now and I've learned to hold my tongue," Besides, the Los Angeles-based comic wants to minimize his time away from his wife, Tania, and nine-year-old daughter Lily. "It's the best job in show business," he says. "I can take my daughter to school."

And if the sitcom job doesn't work out, Idle can always write another novel. His recently released *The Road to Meow* is a comic thriller about two 22nd-century comedians caught up in an extraterrestrial terrorist plot. The comic's android, Catton, spends much of the novel pondering the possibility



Idle taking a review of old Monty Python songs on tour

human activity of comedy. He even watches ancient Python tapes, trying in vain to grasp the business of men in drag. But Idle has his revenge on the obscenity, wearing the pla to Catton ends up dressed in women's clothing. "The line of many dragons to come," cackles the author. "You can take the man out of Python, it seems, but not Python out of the man."

A novice director scores a surprise hit

He is the English brain behind *American Beauty*, the movie of the year. And as his feature debut attracts overly Oscar buzz, director Sam Mendes says he's "completely surprised" by its success. "The material is so edgy and dark," he explains. "I don't think anyone making it thought it was an Academy movie." Starring Kevin Spacey as a teenage suburbanite married to a neurotic *American Beauty* actress, Mendes has grossed \$74 million, although it cost just \$22 million—and there was widespread



Mendes with *Beauty*: now a hot commodity after his hit film

contests in the studio that we were not going to make that back," adds Mendes.

Born in Trinidad, raised in Oxford, England, and schooled at Cambridge, Mendes, 34, made his mark as stage director with a bold new *Cabaret*, and a male *Nicole Kidman* in *The Blue Room*. After making *Beauty* for Steven Spielberg, he is in demand. But the idea of making two another film "makes me nauseous," says Mendes, who is now directing *War Game*, a Broadway musical with Nathan Lane and Corbin Bleu. Also, his production of *Oliver!* opens this week at Toronto's Princess of Wales Theatre. But don't expect "a new, dark spin" on Dickensian orphan, he says. "It's a good-hearted family show."



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The morning-after pill

In the bitter battle between pro-life and pro-choice groups, the idea of a morning-after pill to prevent pregnancy has long been a flash point. So sensitive

is the issue that the 11-year-old French drug, RU-486—which can terminate early pregnancy and is widely used in Europe—has yet to be approved for sale

in the United States or Canada. But now, a prescription tablet that gives women a way of preventing conception up to three days after intercourse has been cleared for the Canadian market. The manufacturer's announcement last week of the approval of Preven, billed as an emergency contraception pill, caused elation among pro-choice organizations—and brought condemnation from their opponents. "This is about being responsible," said Kim Linton, head of the Canadian Abortion Rights Action League. "It's about women taking charge and having control of their reproductive fates." Rex Jim Whalen, director of the Ottawa-based group Priests for Life, disagreed, calling Preven "an abortion technique—there's no such thing as morning-after contraception."

According to Chelville, Ont.-based Roberts Pharmaceutical Canada Inc., Preven works principally by stopping or delaying ovulation. If an egg has just been fertilized, company officials say, the drug may also prevent an implantation in the uterus. In clinical trials, the drug showed a 75-per-cent success rate.

Chased by U.S. regulators in September, 1998, Preven won Health Canada approval in July, but a spokesman for the company said it delayed announcing the decision until the drug had been shipped to stores. Preven is sold under prescription as part of a kit that costs about \$50. It includes a pregnancy test—the drug will not work if a woman already tests positive—and four light blue pills, two of which have to be taken within 72 hours of intercourse, and the remaining pills 12 hours later.

Developed by Dr. Albert Yuaspe, a Vancouver obstetrician-gynecologist, Preven says synthetic versions of two hormones—estrogen and progesterone—to block conception. In fact, some doctors and their patients have known for years that a high dose of birth control pills could have the same effect. Some Canadian pro-life groups plan boycotts of other Roberts products and of pharmacies that sell Preven. With new techniques in reproductive technology appearing in rapid succession, the debate over just when life begins is likely to continue unabated.

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Weller (blue hair), Scarsdale (yellow hair) playing for the '80s



The music and spirit of the 'Greed Is Good' decade are back with a vengeance

Reliving the '80s

By Andrew Clark

Five hundred young men and women are dancing, drinking, smoking and, in some cases, making out. British pop band Duran Duran's 1981 hit *Goths* is playing through the sweaty atmosphere. Sounding sexually agitated, lead singer Simon Lebon whines out his tribute to pornography: "Welcome to Reno '80s Night at the popular Toronto nightclub Whiskey Sagas, an evening dedicated to the nostalgic worship of the 'Greed Is Good' decade. Every Sunday night, the Toronto radio station Edge 102.1 broadcasts live from the bar, playing such 1980s bards as Depeche Mode, Visage, Drex's Midnight Runners and Canada's Spoon for an audience the broadcaster says numbers 85,000. To 27-year-old retro night patron Matthew Cox, the allure is simple: "I'm so sick of the '90s and the '70s," he yells gleefully. "The '80s was the best decade ever. I mean, it was never one-dimensional. Rich was good. Poor was bad. Cocaine was the drug of choice. Simos

Lebon was on top of the charm. How can you ask for more?" Edge 102.1 DJ and retro night host Martin Steele, 35, looks down from his booth high above the dance floor and recalls that the event started as "a new concept for a broadcast. The response was unbelievable. We will turn away around 600 people a night."

Call it laughable. Call it proof positive of the decay of Western civilization. But, like it or not, the 1980s are back, big-time. Look around: Joe Clark is leading the Conservatives (Donald Tuzop is again in the limelight [running for U.S. president yet] and more obvious than ever. Almost every week, a new 1980s greatest-hits CD is released. Recent offerings include *Blondie* (page 120), *Brian Ferry*, *ZZ Top*, *ABC* and the *Pat Benney* Boys are back on tour. This week, a newly remixed *Annie Lennox* and *Dave Stewart* of *Eurythmics*, which has just released the new album *Passion*, headline *Made-*

son Square Garden in New York City. Many American cities, including Los Angeles and Chicago, have all-'80s radio stations.

A host of 1980s-themed movies, such as *200 Cigarettes*, *The Wedding Singer* and the current romantic comedy *The Suburbans*, threaten to usher in another round of big, go-suff-hut and *Flashdance* overreactions. The new hit U.S. TV show *Flash and Gilda* focuses on '80s standbys such as *Cher*, *The Golden Girls*, *Simon and Simon* and *Miami Vice* are in constant series. *Mad About Music* airs its beloved All-Elphins Weekend, reaching an average of 700,000 viewers. At the grassroots level, clubs all across North America are selling out by going '80s. "We made the switch from the '70s when we noticed people started having an interest in the '80s," says Blaine Fraser, a manager of the Winnipeg club Scarsdale. "It's one of our most successful nights."

The crowd at Whiskey Sagas is a perfect case study in 1980s nostalgia. All the major sources of '80s nostalgia are accounted for. Roughly 60 per cent of the crowd are people in their early 20s. To them, retro night is a chance to discover the music that their elder brothers and sisters grew up on. Then there are those who lived through the days of *Miami Vice* and *Raiders of the Coast*. For these 30- and 40-year-olds it is a chance to relive their youth. Overall, 65 per cent of those present are female. "Women are the driving force behind the '80s revival," says 37-year-old Alan Cross, an Edge 102.1 DJ who has produced 30 new CD collections. "Eighties pop is very desirable. The chicks dig it, and whenever you have women liking something, the guys follow."

Friends like Moorehead, 27, and Peter Allen, 40, listen to the Sunday night retro broadcast religiously. For them, a trip to an '80s night is almost a sacred pilgrimage. On Halloween, the pair dressed up in the 1980s *Saturday Night Live* characters *Hans and Franz*. "In the '80s, we all had jobs and money," Allen says. "It was carefree and happy."

The cure started in the early-1990s as a way for disenfranchised Generation Xers—people in their mid-30s who had grown up amid the 1980s boom and then found themselves broke and jobless in this decade—to mock '80s materialism. In London, dark-green-haired back their hair and wore power suits, and would wear given for the winter and autumn (the stereotype of the 1980s) broke. "The Gen Xers were left holding the bag for the '80s," observes Cross, who started one of the first retro nights in the country in 1993. They were cynical and that found an expression in grunge and industrial music. But they got tired of the ugly sound. The '80s pop

'In the '80s,' says one enthusiast, 'we all had jobs and money. It was carefree.'



Alan Scarsdale in *The Wedding Singer*: the decade is popping up in film

music ended up being the essence to all that."

This attitude has not gone unnoticed by record executives. In the mid-1990s, companies began re-releasing 1980s CDs, and there are now hundreds of compilations and greatest-hits collections on offer. The classic compilation is *Retro Records*: 17-volume collection *Just Can't Get Enough*. Recent Canadian releases include greatest-hits CDs by *Martina* and the *Maffins*, *Rough Trade*, the *Spoons*, *Strange Advance* and *Grapes of Wrath*. EMI Music Canada has issued a six-volume series of 1980s CDs from *disco* to *punk* to *one-hit wonders*. On average, 1980s CDs sell between 5,000 and 40,000 copies, according to EMI marketing manager Warren Stewart. Bands that were cult favorites 15 years ago can sell more than they did in the 1980s. *Microstream* radio airwaves new-wave bands during that decade, but now it is easier to coproduce on the nostalgia. "There wasn't the radio play that there is now," says Steele. "Bands could only go as far because you couldn't get new wave played on mainstream radio." Retro CDs are also cheap to produce. "We own all the rights," says Stewart. "We write the lyrics, and the artists get the royalties."

Likely, not all 1980s phenomena are being uncensored. So far, no one appears to be pushing big shoulder pads and big earrings for women, or no socks and garter jockers for men. And the 1980s revival is not even a revival of the entire decade. The retro trend is restricted to music and pop culture that emerged between 1980 and 1985. After 1985, '80s lovers agree, the decade took a wrong turn. Music became bland, and bands such as *Hi-C* and *New Kids on the Block* defined awakens. *Streak* notes, however, that even the candy-pop bands are getting a second look. "It's hysterical," he says. "You'll get guys coming up to the booth and saying, 'My girlfriend wants to hear *Al-Hi* [a New Kids pop-band] or

'OMD [Orchestral Manoeuvres in the Dark]' is like, 'Oh yeah, your girlfriend wants to hear it, eh?'

More than just music is mourning the 1980s. At its core, the record is no different than the nostalgia fads for the 1970s and the 1960s. To youngsters who did not experience the '80s, it is a chance to lament the passing of a golden age—one in which 20-year-olds were free to engage in a libidinal binge of drugs and recreational sex—AIDs may have been a big story throughout the decade, but it wasn't recognized as a serious threat to heterosexuals until the second half. "It was a pretty hedonistic time," observes Cross.

It is time that the 1980s crowd a *Whiskey Sogun* does a good job of re-creating. As songs such as New Order's *Acute Love Triangle* swirl through the club, patron gyrates in a swazy frenzy. They happily mouth the words. A club manager hands out copies of *Platinum Blonde's* greatest-hits CD. Walter Scamolon, 27, dressed up for Halloween as the group's lead singer, says "they look an." His friend Heidi Wallace, 27, pines for "the hit, the big hair. Everything about the '80s was so cheesy." A couple of women bare their breasts and bottoms to cheering onlookers. Twenty-two-year-old Lisa leads her pal Joelle, 26, around on a leash.

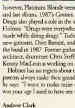
Occasionally the two stop to down a round of shooters. "This is a party crowd and the '80s was a party decade," Lisa says. "There wasn't any political correctness. People didn't appreciate it back then."

The party will last only so long. Like that quarter-century '80s drug cocaine, nostalgia for the decade is getting used up quickly and proving tough to replace. But the club owners and DJs are already working on the next comeback. *Stark* is starting to insert the odd late-1980s or early-1990s song into his retro nights. The house music scene of early-1990s *Madhouse* is back in vogue. It may take even less effort to pull the 1990s from the shelves.

In the midst of retro night chaos, Terry Tison surveys the crowd and smiles. He and his partner bought *Whiskey Sogun* in September. "We're now playing '80s music every night on the second floor," he says. "I think people like hearing music that they are familiar with and that has memories." Tison stops a moment, he seems to be having an epiphany. The club owner can see the future. "Retro '90s," he proclaims, "now that, that will be huge." ■



Gall, MacLean, Holmes, Steffler in 1985. *Platinum Blonde* never English's partner and girls



BLONDE AMBITION

Mark Holmes loses his concentration, again. Another beautiful woman is walking by, and he goes wildly at her. Once upon a time, tens of thousands of women admired his gaze with adoring eyes. But that was 15 years ago, and Holmes, the lead singer and bassist of 1980s glam-rock band *Platinum Blonde*, has since fallen from the public eye. "Money came and money went," the 34-year-old says over a star-fry in a Toronto restaurant. "I didn't make the most wise business decisions. I see, 'Where's the party? Where are the girls?' Everything people thought we did, we did, and more. I did things that would make James Bond blush."

Holmes, who has pursued a solo career since the band's 1989 demise, may once again have a chance to indulge in rock 'n' roll decadence. *Platinum Blonde's* new greatest-hits CD, *Seven Her Aches*—featuring such songs as *Nite in Love* and *Going over Now*—is now on *Billboard Canada's* Top 10 Compilations CDs chart. The group is planning a national tour in December. A new CD, *November 9*, is due in January.

A winning combination of rockier tunes playing songs melding rock and new wave put *Platinum Blonde* near the top of the heap for much of the 1980s, with sales of 200,000 and 500,000 for its first two albums. The group caused hysteria wherever it performed: In 1984, 30,000 fans—mostly hormone-crazy girls—turned up for a concert at Toronto's Nathan Phillips Square and eventually stood. To Holmes, who moved to Toronto from England in 1980, it was a dream come true. Fans scaled hotel walls and smacked into recording studios. After shows, females would slip into Holmes's backstage shower. "They'd start leeching, and I'd say, 'Could you scrub my back?'"

As the 1980s marched on, however, *Platinum Blonde* seemed off course musically. Its third and last album, 1987's *Gossamer*, failed to meet expectations. Drugs also played a role in the woe. "It was the '80s," recalls Holmes. "Drugs were everywhere. I mean, business deals were made while doing drugs." Today's *Platinum Blonde* features a new guitarist, Dave Barrett, and drummer, Sacha, who joined the band in 1987. Former guitarist Sergio Gall is now a Toronto architect, drummer Chris Steffler is a restaurateur and bassist Kerry MacLean is working on his own musical projects.

Holmes has no regrets about the past, only a bit of weariness. "I wish I could make more money. I'll say. Kid, when I was your age I used to have sex without wearing a condom."

Andrew Clark

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The Maclean's Excerpt



A doctor for homeless mothers in Toronto: youngsters are being damaged for life

When kids go hungry

Can we afford not to spend the \$9 billion a year needed to overcome child poverty?

Mal Hurst, the Edmonton-based publisher and associate editor of the *Maclean's*, has been an associate editor on the *Maclean's* for three decades. Remember his new book, *Pay the Rent or Feed the Kids*, 1997, was chosen by the *Maclean's* as one of the world's richest countries. An excerpt.

By Mal Hurst

One of my first interviews was with the principal of an inner city school in Edmonton. It was an old three-story brick building with creaky linoleum floors and small classrooms. We sat talking in her tiny second-floor office. Suddenly, she got up from her desk and moved to the window. She motioned for me to join her. Down below, I could just barely see a little girl hiding under the stairs. Just then the noon bell went off. The little girl leapt to her feet, ran along the side of the building, disappeared into a door, quickly reappeared and returned across the schoolyard. Instantly two

small children, a boy and a girl, maybe five and four years of age, came running across the yard. All three vanished into the school.

The principal told me that the older girl, who was 7, was seeking her younger brother and sister into the school's hot-lunch program. She did this several times a week at the end of each month. One of the new teachers noticed what was happening and, in a non-confrontational way, questioned the girl, who began to cry with shaking shoulders, deep sobs and tears rolling down her face. There was no father in the family. Their mother had been sick in bed for months. They always ran out of food before the end of the month. The utility bill had to be paid if it wasn't, child welfare would take the kids away from their mother. There was nothing in the house to eat.

When I began the research for this book, I knew there were large numbers of children living in poverty across our country. But I had no idea just how terrible and widespread the suffering is, how very deep the poverty is in so many homes and communities, how hundreds of thousands of Canadian children are being damaged for life.

When many poor children arrive at the school-board door in kindergarten or Grade 1, they are

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Herwig at home in Edmonton: why are there food banks in a rich country?

a businessman brought in six pairs of warm boots for kids who might need them. This was great, but of the 240 kids in the run-end school, about 150 probably needed boots badly. How do you select which students get the six pairs? The teacher finally settled on a system of trying to figure out their age, and then holding a draw. A little dark-haired, round-eyed shortstout girl of 7 won a pair. Her face lit up; her smile was heartwarming. She had been coming to school in old, flimsy running shoes, even in -30°C winters, through deep snowdrifts. But a week later, one of the teachers reported a problem to the principal. The little girl just wouldn't take the boots off, even in gym class. Several teachers had tried, but without success. Finally, the principal took her aside, privately. "Why wouldn't she take her boots off? I mean appeared in her eyes. After some hesitation, she whispered that she didn't have any socks."

Our goal should be to see that every poor child is treated as we would treat our own children

often not ready to learn. It isn't unusual that they don't know letters or colours. Lacking the early development opportunities found in most Canadian homes, the brains of these children may simply not have developed.

From a broader different sciences we know that investment in the best possible environment we can make. We know it will lead to a better, happier, healthier, more productive society and country. We know that child poverty often produces a wide range of anti-social behaviour and results in adults who can't compete in society or in the job market.

There are many why Canada should not become the number 1 country in the world in its care and support for children. The measure can be redefined all that is lacking is the political will and leadership.

Where do we begin? Let's start by reminding Prime Minister Jean Charest of two resolutions passed in the 1998 national Liberal party convention. The first resolution was sponsored by the national Liberal caucus in 1998, "Whereas it is estimated that three million children in Canada arrive at school hungry," and called upon, "Be it resolved that the Liberal Party of Canada urges the federal government to take action to establish a national child nutrition program." The

National Women's Liberal Convention urged the government "to ensure initiatives" that would lead to "the establishment of adequate child care facilities across Canada."

As our first priority, we should establish Canadian child care community centres across the country. In announcing the centres, the government should proclaim that it will no longer tolerate a situation where so many Canadian children are forced to go hungry. Breakfast, lunch, dinner and snacks will be provided without charge to children in need. No child will be turned away. The centres, where possible, will seek the co-operation of hospitals in preparing nutritious food. In much the same way that Edmonton's school lunch program works closely with a local hospital.

Each centre will have a full-time nurse and receive regular visits from a paediatrician. When required, children will be referred to medical specialists or to an optometrist, speech pathologist or dentist. Transportation will be provided, without charge, as will all other services. When the doctor prescribes drugs for the children, the centres will obtain these drugs and provide them to the parents without charge.

The principal is the school in Winnipeg told me that just before Christmas

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Excerpt

Across Canada, reductions in welfare benefits have had disastrous results

erement that's committed to finally doing something about poverty: spelling out clear, measurable national objectives and timetables to alleviate, reduce and finally eliminate most poverty, a government that values charity, but understands that charity only brushes the surface of the deep wound in our society. And we need a government that understands that the very concept of food banks should be anathema in a civilized country.

Here's what needs to be done. The federal government should appoint a five-person commission and give it six months to recommend tax and other policy changes that will, as fairly as possible, produce \$9 billion in additional annual revenue that can be used to fight poverty (The corporate elite and the business press will of course scream blue murder.)

Anticipated economic growth can probably provide much of the answer without even changing the tax system. Recent forecasts suggest federal government surpluses in the \$5-billion to \$10-billion range. Ottawa economist Mike McCauley of Informatica is forecasting a huge federal surplus of at least \$15 billion next year and even greater surpluses in the following years. Even if he proves to be too optimistic, much of the money needed to help the poor should come without tax increases. But some important tax changes are in order and some of them are long overdue.

For example, the government should remove the present tax and expenditure concessions to the affluent. In recent times, there has achieved a measure of recognition under the cognomen of corporate welfare. Included have been diverse business subsidies and tax breaks.

Are corporations paying their fair share of taxes? In the 1990s, corporate taxation in Canada as a percentage of gross domestic product has been well below the average levels of the previous four decades.

But from everything I have learned about the subject over the years, the answer is that many (if not all) Canadian corporations pay a reasonable corporate tax, while foreign corporations operating in Canada are escaping billions of dollars in taxes that should be paid in Canada every year.

Next, shouldn't we make the income tax system much more progressive? Is it really fair that someone earning \$62,000 a year pays the same basic tax rate as someone earning \$6.2 million? Shouldn't we re-examine the tax brackets to make them far more progressive and fair?

What about inheritance taxes? Among major developed nations, only Canada, Australia and New Zealand don't have them. Should we examine inheritance taxes on large estates? Why not allow reasonable basic exemptions so that average families are not penalized, but then apply a reasonable tax on the balance?

The tax commission would look not only at how to raise additional revenue, but also how it might cut taxes for Canadians, especially for low-income families and individuals. Why not index the child tax benefit to inflation so its value doesn't erode? Why not raise the basic exemption for those with low incomes even further and index it as well? Ottawa begins about removing hundreds of thousands of low-income Canadians from the tax rolls through 1998 and 1999 increased exemptions, but without deduction some 1.4 million Canadians were pushed back onto those rolls in the past 10 years.

On the other hand, do we really need to give high-income families big tax credits or tax deductions associated with child care costs?

I walked with the single mother around the sea wall in Vancouver for almost two hours. She had moved to the West Coast eight years ago hoping for a better life. It didn't turn out that way; now she has two young children and she has AIDS. She says poverty is such a shame, it's so destructive. There's so much abuse on television. For the kids, the mirror image of society is a buffer design clothes, nice shoes, wonderful vacations. Inevitably, you blame your-

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Excerpt

She was ashamed to
find herself fighting
with her daughter
over a slice of bread

well, it's your own fault. You're always
trying to find ways to hide your poverty.

She says the trick to pay the bills at the
beginning of the month, the 25th of
October comes around, the 25th of
the month. She says: "You want to know how
hard it is? I'll tell you. I was sick in bed. My
daughter comes home from school
and makes herself a piece of toast. When
I got out of bed and saw what she had
done I blew up. That toast was supposed
to be lunch for the next day! I was blew up
with my daughter over a slice of bread for
God's sake! I never, never over thought I
would have to raise my kids in poverty. It
is so shameful."

Through hope, ascending, hypocritical
government, we have badly failed our
own people. Through selfishness, greed,
indifference and cruelty, we have forced
millions of men, women and children to
struggle through lives of misery, despair
and suffering.

Instead of comprehensive political,
social and economic solutions to the decades
of executive poverty in our country, we
have offered poison, self-righteous rhetoric
and Band-Aid, patchwork, inconsequential
and totally inadequate cosmetic im-
provements.

In the past, over and over and over
again, year after year, decade after decade,
we've been told that the poor will have to
wait until the government's financial situa-
tion has improved. Now the federal
government is exporting large surpluses.
How much longer will the poor have
to wait?

On May 10, 1999, I spoke to the stu-
dents at three inner-city schools in Ed-
monton. There were kids of every race,
colour and religion. In a Grade 1 class, I
met two dozen beautiful poor children,
most from single-parent families, some
from group or foster homes. I met a won-

derful seven-year-old immigrant boy who
was in an hour-long one-on-one remedial
session with a teacher. The boy beamed as
he showed me how he was learning to read.
Later, the principal told me the funds for
this program expire this year and will not be
renewed. I met a pretty, and fixed 14-year-
old girl with dark circles under her eyes.
She was being abused at home, the prin-
cipal told me. The intervention-program
funds had been cut back. She wasn't getting
the help she needed. A bright-eyed along-
with girl came up to me after my talk and
asked me how she could go to university
when it looked like there wouldn't be
enough money in the family to allow her to
continue on to high school. Everywhere
I turned I saw kids who wanted to hug, to
sit down and talk with. And I saw over-
loaded, heroic teachers pay barely able to
cope with the problems they faced every
day: poor kids in trouble, poor junior-high
kids who were already giving up, poor kids
who desperately needed help. All the teachers
reminded the same thing: the government
cutbacks were hurting poor children badly.
"It's a tragedy," they said.

Don't accept the absolute right-wing
selling job that so often appears at one
daily press. There are much better, much
fairer, much more exploration, practical,
realistic ways of running a country. And
there are benevolent and beneficial ways
of reducing poverty to produce a more
civil, more just society.

Our goal should be clear. Let's ensure
that we deal with the prevention of
poverty in Canada, not simply engage in
attempts to alleviate poverty after it is
solidly entrenched in concrete in our so-
ciety. To achieve this goal, many more
men and women must become directly
involved in politics. If even one-fifth of
the poor in Canada became directly in-
volved in the political life of our country,
they could change the future. If even five
per cent of adult Canadians were to be-
come active in federal politics, they could
completely dominate the political power
structure of our country.

Our first goal should be to make sure every
poor child in Canada is treated as we
would treat our very own children.

Nothing less will do. ☐

SUCCESS IN THE Knowledge Economy

Canada's Youth Employment Strategy recognizes
that knowledge and skills will be the currency of
the 21st century. They will define the way we work,
the way we thrive as individuals and the way we succeed
as a nation. Because of the changing nature of the world
economy, the prospects for a high quality of life in our
country will depend — as never before — on having a
population that is adaptable, resilient and ready to learn
throughout life. That is why the Government of Canada is
committed to ensuring that opportunities for learning
are accessible and available to all Canadians.

Young Canadians are the leaders of tomorrow. As a
society, our immediate challenge is to help youth make a
successful transition to the world of work. We already
know they have a lot to offer. They are among the best
educated in the world, at ease with changing
technologies and they bring energy and enthusiasm to the
workforce.

Through the Youth Employment Strategy, the
Government of Canada works with partners to help young
people acquire the experience, skills and information they
need to prepare for and participate in the world of work.
The main thrusts of the Youth Employment Strategy
provide young Canadians with access to useful career
planning information, financial support to ensure
accessible and affordable post-secondary education and
access to job opportunities.

The door to knowledge and skills should be open to
all, because they are the doors to opportunity. The
Government of Canada is helping to open those doors
through programs and major initiatives, which are part
of Canada's Youth Employment Strategy. They give young
Canadians vital opportunities and information for
learning and better job prospects in the future. By
investing in young Canadians, the Government of Canada
helps to secure the future for all of us.

CanLearn Interactive

Make choices regarding the future is often difficult.
CanLearn Interactive is a brand new Internet-based
program put in place to help Canadians make informed
decisions to planning and selecting their learning goals
and to make educated choices regarding the financing of
those decisions. It provides easy access to information
about learning and career options.

The CanLearn Web site (www.canlearn.ca) can help
Canadians make the best decisions possible. More than
just information regarding educational institutions, the
site provides interactive planning tools that allow the
user to explore career possibilities, identify training and
educational requirements, develop learning strategies
and create much-needed financial plans.



At the CanLearn online resource, users find learning
materials, student financial planners, a financial and
info-pack, scholarship search resources, a learning
opportunities database, online student discussions and
much more.

Developed through exceptional and collaborative
efforts by governments, learning institutions and the
private and voluntary sectors, this Web site translates
into a free, interactive tool that provides a single window
to current and complete information tailored-made for
the user.

Canada Student Loans

Making learning more accessible and affordable is a smart
investment in Canada's future prosperity and quality of
life. It is a passport to employment for Canada's youth.
The Canada Student Loans Program helps more than
180,000 students each year by facilitating attendance at
universities, community colleges and vocational and
technical institutes. An additional 170,000 students are
indirectly assisted by the Government of Canada through
payments made to Québec, Nunavut and the Northwest
Territories, which offer similar programs.



Canada



The Canada Student Loans Program is a long-standing program of the Government of Canada helping students who might otherwise be unable to afford post-secondary education. Since 1964, over \$15 billion in loans have been given to students.

To apply for a student loan, borrowers can contact their provincial student assistance office. The Canada Student Loans Program can provide up to \$300 a week.

Here is how it works. While the borrower is studying full time, the Government of Canada pays the interest on the loan. However, Canada Student Loans like any other loans have to be repaid. Repayment begins six months after the borrower finishes full-time studies. It is important that the borrower contact the bank or credit union to determine how much the repayment is and when to start. The monthly payment on a \$50,000 loan, paid over 16 years at a 10 percent interest rate is about \$133.

For people who have difficulty repaying their loan, the Government of Canada has a number of options to help. For example, a borrower can contact the bank or credit union to apply for interest relief and debt reduction. While the borrower is on interest relief, the Government of Canada pays the interest on the loan. Interest relief is normally approved for six month periods, up to a maximum of 36 months, throughout the lifetime of the loan.

Extended interest relief is also available to students trying to get back on track. If, after exhausting interest relief resources, the borrower is still in financial hardship, he or she may be eligible for a reduction in the loan principal. Debt reduction is generally available to those whose annual payments exceed 25 percent of their income.

Getting a loan is never fun, but the Canada Student Loans Program returns a flexible and accessible learning opportunity by providing a viable option to students who would otherwise be unable to finance their post-secondary education.

Canada Study Grants

Canada Study Grants provide support to students in financial need who have children or other dependents, as well as students with special needs whose financial needs are not fully met by scholarships and student loans. These grants, which vary in amount depending on need

are made available under the Canada Student Loans Program. Unlike student loans, grants do not have to be repaid.

These categories of students may be eligible for Canada Study Grants: students with permanent disabilities; high-need part-time students and students with children or other dependents.

Female full-time students pursuing certain doctoral studies may also qualify for a Canada Study Grant of up to \$3,000 per year, for a maximum of three years. This grant is intended to help increase the participation of women in higher education.

More than 25,000 students are eligible for Canada Study Grants each year.

Canada Millennium Scholarships

Canada has chosen to celebrate the new millennium by making a strategic investment in its youth and their future prospects. In response to concern over rising student debt, the Government of Canada announced in 1998 the creation of the Canada Millennium Scholarship Fund. With an endowment of \$2.5 billion from the Government of Canada, the fund will provide some 100,000 scholarships each year over the next 20 years, beginning in the year 2000.

The single largest investment ever made by a federal government to support access to post-secondary education for Canadians, these funds will enable many Canadians to acquire the knowledge and skills demanded by a changing society.

The scholarships will be awarded by the Canada Millennium Scholarship Foundation, an autonomous organization established to manage the fund. Awarded to students on the basis of financial need and merit, scholarships will average \$3,000 per year. Any eligible student can receive a scholarship towards an undergraduate degree, diploma, or certificate. Students of any age studying at Canadian post-secondary institutions can apply for a scholarship.

The investment of the Canada Millennium Scholarships will pay for itself over and over again in the years ahead. As a result of these scholarships, Canadians from across the country will be better prepared to succeed in the knowledge-based economy. Their success in the economy will translate into Canada's success as a country and into a higher quality of life for all.

International Mobility

The development of international reputation among young people is vital for Canada's economic growth and competitiveness. The International Academic Mobility Program enhances opportunities for the development of the skills and knowledge needed to compete in an increasingly complex and demanding global economy.

The program supports academic cooperation and partnership among colleges, universities and the private sector and gives the way for undergraduate and graduate academic, placement and workships.

Under the program, each year about 500 post-secondary students from all provinces and territories study or work in other countries and bring the knowledge they acquired back to Canada.

Canada Education Savings Grant

One of the best advantages we can give our children is to save for their future post-secondary education. Recognizing the many costs of education and the need



to plan early to meet those costs, the Government of Canada has introduced a grant to assist and encourage families to save for a child's future.

Here is how the Canada Education Savings Grant (CESG) works.

For every dollar invested in a child's Registered Education Savings Plan (RESP), the Government of Canada contributes a grant of 20 percent—to a maximum of \$400 per year, per child, up until a child turns 17. (Note: there are eligibility restrictions for 18 and 17 year olds.) That is a maximum grant of \$7,200, over and above the family's own contributions, to help pay for a child's post-secondary education.

And anyone, including relatives and family friends, can contribute. The important thing is to start saving. By starting early, tax sheltered savings on compounded savings can grow surprisingly quickly over the years. For example, if parents of a newborn put \$30 a week into an RESP, that would total \$520 per year. Add to that a grant of 20% and the yearly total would reach \$624. With compounded interest at 5 percent per year, by the time a child reaches age 17, there will be close to \$18,000 saved to help pay for post-secondary education.

Learning Technologies

Learning is a life-long process. Traditional views of learning and work are constantly being challenged, people today face the reality of changing their jobs several times over the course of their working lives.

Canadians everywhere are upgrading and expanding their skills—in the workplace, in colleges and universities, in community courses and in their homes. Learning technologies can help meet this challenge.

Computer-assisted training and on-line learning are just two examples of how learning technologies can help Canadians adapt to the new knowledge-based economy. People from coast to coast are already using these technologies to access learning opportunities they might not otherwise have. Other applications are being developed all the time.

The Government of Canada's Office of Learning Technologies has developed the most extensive Web site on learning technologies in Canada (<http://www.olt.ca/olt/whg.html>). The site has hosted many online conferences on learning technology themes, workshops, webcasts, panel discussions and demonstration showcasing Canadian learning technologies, all aimed at making knowledge and skills more accessible in all parts of Canada.

Literacy

Literacy is closely linked to people's earning power and the opportunities available to them. With such pressing day technology and global competitiveness are changing the nature of work and the structure of the labour force. Whether a tire shop, a printing firm or an oil refinery, almost every business is demanding more highly developed reading and writing skills from its workers.

For individual Canadians, knowledge and skills offer hope and opportunity, the promise of better jobs and a higher standard of living. University, college or vocational institute graduates enjoy incomes 43 percent higher than those who did not complete high school. The acquisition of knowledge and skills is the greatest equivalent of all in a changing economy.

All around us we can see the difference that education makes in the daily lives of Canadians. During the last recession, for those with high school education, 440,000 jobs were lost. For those with degrees or diplomas, 400,000 jobs were gained. It is not surprising that the unemployment rate for those with less than a high school diploma is 11 percent, while for those with a university degree, it is only five percent.



There was the time a decade ago. Today, strong literacy skills are doubly linked to career power and job opportunities.

Literacy, however, is not static. Studies have shown that students can lose literacy skills after the end of schooling or through lack of use. On the other hand, they can gain skills through practice and additional training.

That is why Canada's National Literacy Secretariat is working to ensure Canadians have opportunities to develop the over-essential literacy skills needed to manage in today's life. It encourages partners throughout Canada to invest in literacy.

Students can also do their part for literacy opportunities not only across the country for students to realize their time being learning of all ages on a one-to-one basis.

Youth Internship

Internships are a critical component of Canada's Youth Employment Strategy. They are a great way for students to obtain valuable work experience they will need to enter the labour force. A number of federal departments as well as private and public sector associations and non-governmental organizations receive funding through Human Resources Development Canada to develop projects which offer jobs to unemployed and underemployed youth.

Searchships provide work experiences, in Canada or abroad, in key areas such as science and technology and international trade and development. Projects are selected based on key elements such as local community needs, relevant skills and experience and possibilities of long-term employment.

Internships benefit both the young person and employer. They provide young people who are unemployed or underemployed, out of school and legally entitled to work in Canada, the chance to gain work experience while providing the employer with a valuable employee who is eager to learn. Over 42,000 internships were created last year.

Student Summer Jobs

Student Summer Job Action creates summer work experiences for secondary and post-secondary students. This program works in partnership with private and not-for-profit groups to help students find summer work

through wage subsidies to employers. Interest-free loans to students starting their own businesses, professional services and information. There are four main components of this program.

Summer Career Placement - provides wage subsidies to private, public and not-for-profit employers to create career-related summer jobs for students.

Student Business Loans - interest-free loans of up to \$10,000 are provided to students to start their own summer business. Business counselling, seminars and workshops are also available to help students on the ground.

Partners in Promoting Student Employment - is a joint effort between the Government of Canada and business associations to promote student hiring in their communities.

Human Resources Centres for Students - are located throughout Canada. They assist students in finding a summer job and offer job information resources on resume writing, looking for a job and preparing for an interview.

Any secondary or post-secondary student returning to full-time studies who is legally entitled to work in Canada can participate in these programs.

Campus WorkLink

Campus WorkLink is the combination of two highly successful Internet tools. It consists of Industry Canada's National Graduate Register and the Canadian Association of Career Educators and Employers' (CACEE) job posting system. Through a partnership, these two organizations merged in 1999 and have taken the best technology of both systems for both job seekers and employers to access.

Campus WorkLink is Canada's largest and most accessed job finding tool for youth. It is a national bilingual Internet database designed for university and college students and the employers seeking to hire them. It offers candidates greater access to employers and jobs across Canada and provides efficient and cost-effective recruiting for employers.

Job seekers can fill out a standardized resume online and have immediate access to full-time, part-time, summer and internship positions related to their interests or field of study. Employers can post jobs, compare profiles in national campaigns, view searching for qualified candidates to fill positions, employers can provide targeted, efficient searches of graduates using information field of study or location.

Campus WorkLink currently has over 180,000 job seekers accounts and over 40,000 employers who use the site for recruitment and career activities. The site receives an average of 2.5 million hits per month and employs with funding provided through the Youth Employment Strategy. Over 45 youth across Canada to work in institutions, providing the service to both job seekers and employers.

For more information about these or other Government of Canada programs, call 1-800-2-Employment (1-800-827-8232) TTY: 1-800-465-7725 or visit our Web site at www.canada.gc.ca

Music

'Dark optimism'

Our Lady Peace captivates with smart, moody rock

New Orleans is known to music lovers everywhere as the cradle of jazz and the birthplace of Louis Armstrong. But it is also a hard-rock town, and the home of Elton John, an annual, daylong event featuring the top names in alternative music. This year's festival, held on Oct. 23, featured a lineup including

U.S. critics as well. "Brash, angry, yet gloriously raucous," read *The Boston Globe*, while *Rolling Stone* credited the group for its willingness to "blitz with the big guns." But *The Washington Post's* Mark Jenkins put Our Lady Peace the highest complement when he wrote that its new album "sparkles as a

sup Maids admirably "just real people, no difference than anyone else. We try not to get caught up in all the superficial stuff." Adds bassist Coates: "If we don't sell like the Backstreet Boys, we're fine with that. We just want to make music that we like."

That ironic on *Happiness* signals from your rockers like *River* to such off-kilter numbers in the tempo-shifting, *Atone Girl*, all delivered in Maids' intense Jekyll-and-Hyde style—raging, bawdy, or earnest, soothing falsetto the rest. A former community activist at the University of Toronto, Maids is also the lyricist and a therefore responsible for the group's outlook, which he describes as "dark optimism." He makes notes of conformity and alienation on *Our Man Amy*, while *Answer*—about a high-school outcast who has violent fantasies—seems to draw on the high-school massacre in Littleton, Colo. But Maids insists that the song came to him before that recent tragedy. "It's really about people who get pushed on that aren't helpless anyone," says Maids, who worries that some Internet chat rooms feed the irrational impulses of loners. "There are connections made where you know what's real, but it's enough to run into a land of reality for these people. It can get pretty dangerous."

So can travelling through parts of America, Maids adds. Maids is looking forward to a New Year's Eve appearance in Ottawa, followed by a cross-country tour. Until then, the group will wind its way from San Antonio, Tex., to San Jose, Calif., and Los Angeles to Las Vegas, playing large venues and seeking out the finest acoustics. "We can make the best music anywhere," says Maids, "on any Maids. For down-to-earth rockers: Our Lady Peace, that's a true measure of success."

Nicholas Jennings



Coates (lower left), Jenkins, Maids: 'real people'

time when so much rock sounds flat."

On their home and native soil, the group's members are accustomed to awards and accolades, having won 1998 Junos for group and album of the year while being hailed for songs of brooding introspection. Maids, however, eschews celebrity—even though the darkly handsome singer and his striking fiancée, singer Chantal Kreviazuk, easily qualify as Canadian pop's most glamorous couple (page 136). "There are no rock stars in this band,"

Songs from the soul

Chantal Kreviazuk has just stepped out of the shower. It's noon on a sunny October day, and the singer is late for an interview. Fortunately, she's meeting the journalist in a cafe right below her apartment in Toronto's Little Italy district. Pulling on a pair of grey pants and a cream sweater with the word "junk" knitted on the sleeve, she muzz down stairs. As she clears the coffee shop, her dark hair still wet, she runs straight into a young man who beams at her in wide-eyed wonder. Out of breath, Kreviazuk shakes his hand and apologizes for her lateness—until she realizes her mistake: this is a fan, not the reporter. Later, at a nearby restaurant, the Winnipeg native is still shaking her head over the mix-up. "Oh, that was so embarrassing," says Kreviazuk, adding that she normally

loves meeting fans, but only on her own terms. And certainly not when her guard is down. "I really hope that doesn't happen again."

Chances are it will. As Kreviazuk's career continues to shine, recognition will come as easily as winter snowdrifts in her home town. The 26-year-old singer-pianist attracted widespread attention for *Under These Rocks and Stones*, her emotionally charged 1996 debut, which sold more than 200,000 copies in Canada and another half-million worldwide. Last year, her career got a further boost when her version of John Denver's *Leaving on a Jet Plane* featured on the hit second track of the movie *Amélie*. Now, with her new album, *Colour Moving and Still*, rising high in the charts and a cross-country

tour that ends in Ottawa on Dec. 31 under way, Chantal is becoming a charmer to be reckoned with.

Over lunch, Kreviazuk makes it clear that all talk about her impending marriage (rumoured to be set for December) to Raine Maida, lead singer of the Canadian rock band Our Lady Peace, is strictly off-limits. Although they are label mates on Sony Music Canada, "we have entirely separate careers," she insists. Yet Maida co-wrote two songs with her on *Colour Moving and Still* and helped produce a third. All she will say is that "we're away from each other a lot, so we have to work really hard at our relationship," before adding: "Doesn't everyone?"

What Kreviazuk is happy to talk about, oddly enough, is death, which became a theme of the new album after a 12-year-old girl she had befriended died from an inoperable brain tumour. That experience led to *Me*, a slow, jazz ballad that includes the album-title phrase "Colour moving and still," itself a reference to the girl's parents wanting to keep her alive with video and pho-



Kreviazuk: passionate competitiveness about her, death and the life of the spirit

graphic images. For *Amélie*, she says, was inspired by a boyfriend who committed suicide—the same boyfriend whose death triggered the naked power of *Surrounded* on her debut album "They say that with death comes life," says Kreviazuk. "I think it means that death changes the living. It can bring us

closer together and be an incredible learning experience."

The only daughter of Jon Kreviazuk, owner of a Winnipeg swimming-pool business, and his wife, Carol, Chantal began piano lessons at the age of 5. But with two athletic older brothers, she was drawn to sports. She also took up

horseback riding, an activity she still pursues at a stable north of Toronto. While studying English at the University of Manitoba, Kreviazuk worked as a singer on the Winnipeg hotel circuit. She also sang the national anthem at hockey games and commercial jingles for local businesses. But then two life-changing events took place: her boyfriend's suicide, and her own near-death experience from a moped accident while she was on holiday in Italy in 1994. A "wake-up call," as she calls it, the accident inspired her on to songwriting, which led to a reported \$1-million deal with Sony.

Not all of the new album dwells on mortality. The guitar-driven *Before You and the piano-laced *Until We Die* are unabashed love songs, while numbers like *Swirl* express more spiritual concerns. "I knew I wanted to write more songs that came from deep inside," she says. "That's what gives me a connection to my audience—something I hope I never lose."*

Nicholas Jennings

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Music

Hip-hop hooray

Canadian hip-hop has been busting out ever since the single *Northern Touch* brought the cream of this country's MCs and deejays together last year in a happy confluence of rhymes and beats. "Ain't nobody cash bang with us," rapped Vancouver's Rascaz on the infectious song. To prove their point, the crew from "Van City," as they call it, brought in guests including Chocba, Kardinal Offishall and Thrust, all of whom hail from Toronto—dubbed "T-dot-O-dot." *Northern Touch* was a fun and became an instant anthem. And now, both the Rascaz and Chocba have released strong new albums—each with contributions from the other.

On *Global Warning* (Figure IV/BMG), the five artists who make up the Rascaz funk it up with multicultural instrumentation. *High Noon* mixes sitar over a driving rhythm track, while *Populism's Control* features steel drums and orchestral strings. Some of the album suffers from hip-hop banalities. But the Jamaican-tinged *Top of the World* and the laid-back session *Prologue* prove that some of the most innovative hip-hop flows from the Rascaz' home town.

The solo rapper Chocba can also be a turn-of-mind chemo-beat in his case, the braggadocio deals almost entirely with his sexual prowess. But on *for Cold* (Virgin/EMI), his much-anticipated major-label debut, Chocba makes a convincing case for himself as a thriving Romeo with the smoothest style around. Both *Prologue* and the solo track, full of moans and squeals, feature imaginative descriptions of bedroom behavior. Filled with black-rocking beats, *for Cold* is a winner. And Canadian hip-hop—from T-dot-O-dot to Van City—is better for it.

Nicholas Jennings

Books

Animated by attitude

Cartoon Capers: The History of Canadian Animation

By Karen Mazurkewich
McGraw-Hill, 300 pages, \$29.95

We praise our writers. We praise our hockey stars. We even praise our comedians. But when it comes to those who create animation, Canada seems largely unmoved. Animators are the unsung heroes of Canadian culture. First-time author Karen Mazurkewich intends to change all that. Her densely illustrated book *Cartoon Capers* is an exhaustive history of cartooning in the Great White North. "Canadians did not invent animation," she writes. "But they have engineered a police takeover."

Mazurkewich, a Canadian freelance journalist and filmmaker, traces that takeover to its roots. She begins with Winnipeg animators Jon Aron and Charles Lambly, who created the country's first surviving animated cartoon, *The Man Who Walked Up*, in 1919. Mazurkewich goes on to other pioneers—artists such as Charles Thomson, a Winnipeg-born animator who spent the mid-1930s waiting for Disney. Thomson contributed to the development of *Snow White* and then helped create the Warner Bros. icon Bugs Bunny. Mazurkewich pays particular homage to Raelle Barré, a Quebecer whose work paved the way for the outrageous slapstick of American animators including Tex Avery.

Much of *Cartoon Capers* is dedicated to the National Film Board. Initially created in 1939 as a way to create wartime propaganda, the NFB quickly became a worldwide cinematic force. And animation was a key element of its production. Mazurkewich sheds light on the genius of such NFB heavy hitters as Norman McLaren and George Dunning, men who helped set the standard for Canadian animation from

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Books

the 1940s to the 1970s. She also uncovers some of the enlightening and political pasting that has plagued the NFB throughout its existence.

Carroll Capen does not neglect today's artists. Mazurkewich examines the importance of Canadian animation schools such as Sheridan College in Ontario, Ont., and the Emily Carr College of Art and Design in Vancouver, and credits them for fostering homegrown talent. The author also profiles production houses such as Toronto-based Nelvana Ltd., as well as star animators including Danny Antonucci (*Ed, Edd n Eddy*), Richard Williams (*Who Framed Roger Rabbit*) and John Kricfalusi (*The Ren & Stimpy Show*). At the height of its popularity in the mid-1990s, *Ren & Stimpy* drew 2.2 million viewers an episode. Mazurkewich lauds Ottawa-based, Los Angeles-based Kricfalusi for helping make animation a "cultural moment for grown-ups." Williams, who was born in Toronto, is credited with "defining animation from the evils of the Saturday morning time-slot." Released in 1988, *Who Framed Roger Rabbit*—on which Williams served as animation director—earned \$180 million and established animation as a viable feature film commodity.

Mazurkewich presents the saga of Canadian animation through a series of lively biographical sketches. But the fails to offer compelling theories to explain the continued success of the art in this country. The author paints a vivid portrait of the renegade Kricfalusi, who once said "First we have to blow up the Disney studio." To Mazurkewich, he is exploring "the postmodern effort to sift through the cultural detritus in the wasteland of television in search of familiar touchstones." She fails, however, to explain why his Canadian roots led to his preoccupation with pop-culture cartoons. Still, despite its analytical shortcomings, *Carroll Capen* is an invaluable look at an art form that can no longer be dismissed as kid stuff.

Andrew Clark

Books

Passions beyond the pale

A writer-artist plays mischief with the afterlife

The Museum at Purgatory

By Nick Bantock
HarperCollins, 126 pages, \$30

None of Nick Bantock's previous books has been for the literal-minded, and his new novel is no exception. Like the best-selling *Gogol & Solov* trilogy (1991-1993), which made his reputation, *The Museum at Purgatory* is an illustrated book in which the writer half gives a kind of dream-like reality by the exquisite graphics. In Bantock's New Age purgatory, no God-like figure judges souls after their earthly existence. Instead, the dead themselves choose their next destination from among the dozen or so vagues or equal number of dyspneustic available. Non, the novel's narrative and course of purgatory's museum, deals with a my fragment of the apocryphal—obsessive collection. Their bizarre possessions offer Bantock scraps for some of the finest illustrations of his career. They also obscure the West Vancouver writer's cheerful indifference to the ultimate purpose of his metaphysical universe. "I don't believe in answers," Bantock says in an interview. "I just ask ridiculous questions."

Machocness is a quality that right through *The Museum at Purgatory*, which is 50-year-old author calls "a black comedy on philosophy." Dyspneustic destinations include the Marlor of Tolkien's *Lord of the Rings* as well as plain old hell, the (un)happy-bound may end up in heaven or the mythic land of old cities, Fiddler's Green. And among the 10 observers whose case histories Non presents is Edward Fitzgerald. The 19th-century English translator of *The Rubaiyat of Omar Khayyam*, the only real-life figure in the novel, brought us magic Persian carpets with him from the Other Side. Bantock's *Enlightened-Eyes-Visionary tale* of nature explaining their origin is one of the book's high points.



Bantock: "I don't believe in answers."

But Fitzgerald himself undergoes a more implacable cartoonish evaluation than his captives. Many of Nick's "patients" go through similar evaluations in Non's manner-of-factly directs them, showing just how they used their collections to fill gaping holes in their souls. A few provide more subtle challenges for Non, and for the reader. Meiner Levant, an artist fascinated by spinning tops, published an entire fake history of the cope and then began marketing market demand for antique examples with his own works. "When enough serious collectors and art galleries had purchased his tops," Non cynically notes, "any notion that the tops might be revealed as modern fabrications became out of the question."

Bantock, of course, is not just mocking the art world here, but also slyly pointing at his own creations—the dozens of beautiful but fake objects he painstakingly constructed to illustrate his characters' imaginary collections. "About five per cent of the objects are as I found them," says Bantock, "and another 20 per cent reworked, but I had to make the rest from scratch." The realistic-looking ancient murmurings, for example, were made from plastic conglomeration to Bantock's four children. To decorate the



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Books

right-page margins in the second part of *Misereux*, Burnack painted a counter-argument 2.7-cm long and 7.6-cm wide. It took him 25 years to finish everything, and another four months of digital photography to create the novel's 50 glorious colour illustrations.

Burnack insists this art is no mere important first text, that the two had to be "married" to produce the book he envisaged, but it is clear where his heart

lies. When passed, he allows that Otto Sengler, collector of the earliest forms of writing, and obsessed with finding "the tantalizingly elusive link between words and images," is the character closest to being a surrogate father. "All my characters speak for me, but Sengler speaks the most. Text does almost us, does separate us from our image-based dream life, does leave us in a state of dissonance," But art, Burnack says, can make fiction profound by "providing unity and play."

The chapter on game designer Garik Nishi is a powerful telling hint of which

of those two quakes has primacy for Burnack. It includes an illustration of the egg-walking game *Pangar Ban*. The accompanying caption says it was invented in India by a company of Welsh "dragons." Burnack answered that it was a pun or a typographical error for "dragons." Burnack answered that it was a typo, and one he could have fixed. "But," laughed the English-born writer, "I looked at it and then I said, 'So it is, I like it.'" In Nick Burnack's multi-layered world, play, after all, is the thing.

Brian Barham



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Films



Casidy, Holkins (below): a gullible pregnant girl and a neurology design psychopath

Starvation of the soul

Atom Egoyan's latest is a troubling minor masterpiece

Felicja's Journey

Directed by Atom Egoyan

William Trevor's 1994 novel *Felicja's Journey* is a small masterpiece of literary deception, a tale of deception told with exhilarating insight. Atom Egoyan's adaptation of the Irish author's book is a small masterpiece of cinematic deception, in which the perversion comes with a huge measure of humanity. The tale of a gullible 17-year-old Irish girl who leaves home and falls into the hands of a Birmingham psychopath, *Felicja's Journey* shows Canadian film-maker Egoyan, who both directed and wrote the screenplay, to be at the height of his powers. So much about the movie is breathtaking: the acting of Elaine Cassidy as the title character and Bob Hoskins as the man who preys on her, Egoyan's three-faced jumps between present and past, Paul Szustak's cinematography of a landscape blighted by industrial detritus and tangled highways, Michael Damani nerve-jangling score. The film is also laden with

creative minor details, right down to the endearingly chunky sandals, made of wood and blue leather, worn by the hapless Felicia.

The story begins with her passage by ferry to England. Felicia is pregnant and hopes to be married with the baby's father. But Johnny Lynghe is nowhere to be found. As Felicia walks through the industrial zone of Birmingham looking for the low-income factory where Johnny has told her he works, she meets Joseph Holkins (Hoskins), a pudgy, middle-aged bachelor who holds the position of

entering supervisor in one of the place. Felicia visits on her doomed pilgrimage.

Joseph is a primly sponsored, platitudespouting manifestation of the banality of evil. By day, he is a snarler of workman's appetites, a man whose face lightens up when the factory kitchen cooks up a colourful steamed raspberry pudding. He seems so quaint, and so safe, as his vintage four-guns Morris Minor. By night, however, Joseph pursues his sick, probably autistic, fascination with what he



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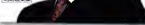
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BY IAN MCKINNON



Timothy Eaton's 100th
birthday was celebrated
in 1994. He is shown here in a
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Films

calls "four girls"—mainly prostitutes.

Or he stays at home and makes elaborate meals according to video instructions in an old cooking show featuring his now-deceased mother (*Arsène Khattoun*). Embellishing on Tawfik's novel, Egoyan has added the detail of the gourmet-TV room. And it is an ingenious addition. The mother is named Gala, and she is an exotic caricature indeed—so exotic, in fact, to be much of a maternal figure. Flashbacks of her taping the show reveal a fabulously turned-out woman with no patience for her morose, overweight son. No wonder Joseph grown up to be obsessed with fat and with food.

With frequent cuts to Gala's programs, Egoyan explores the way video can offer a spurious sense of intimacy. And as Joseph methodically prepares a crown roast of lamb or a turkey with all the trimmings and then dines alone by candlelight, the effect is both pathetic and terrifying. "Food must be served by caring hands," he pronounces, rejecting a pinch from a vending-machine salesman. "It makes us feel loved."

Hodkins is devastating in the role of Joseph, his rough-been face shifting from furious control to anguish and rage. Caniside, despite the fact that she has been acting since the age of 5, has the naturalness of a first-time-lucky actress. Her Felicia is a young woman of unrequited emotion and few defenses, but with surprising nerve beneath it all.

As in Egoyan's only other adaptation and his most recent movie, *The Sweet Hereafter* (1997), the director's touch here is more emotionally direct, less contrived, than in many of his earlier features. More astonishing about *Arbitrarily* is the degree—greater than in the novel—in which it makes compassion for Joseph. Longtime Egoyan collaborator Dana, meanwhile, has composed a score that is unrepentant and elaborate, but in all the right ways—this is strikingly original, unvarnished music. *Arbitrarily* journey emphatically is not a feel-good experience. But it is an exquisite film.

Pascale Hickey



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Lost in the fun house

Being John Malkovich
Directed by Spike Jonze

Perhaps no movie in recent memory has taken a wilder leap of imagination—and got away with it. The premise of *Being John Malkovich* is so wacky it defies explanation. But here goes: Craig (John Cusack), an impoverished puppeteer, gets a filing job on the 7th floor of a Manhattan office building, where the ceiling is only 1½ metres tall and everyone has to stoop —“I’m overhead,” explains the boss. Behind a filing cabinet, Craig discovers a boarded-up passageway, a dark, slimy tunnel that whisks him directly into the mind of actor John Malkovich, then drops him out of the sky onto an embankment of the New Jersey Turnpike.

On top of it, there is a love triangle. While neglecting his wife, Lotie—a workaholic pet-store employee played by a dolted-down Cameron Diaz—Craig lolls after a dominating beauty at the office named Maxine (Catherine Keener), and together they moonlight as travel agents selling rides down the rabbit hole into Malkovich’s head, which becomes a battleground for the rival lovers.

This is one funny movie. Even the stoned-office gag has extraordinary staying power. And what’s amazing about *Being John Malkovich*, unlike most Hollywood fantasies, is that it



Malkovich: surreal twists, inspired nerves

Charlie Kaufman, rookie director Spike Jonze pulls all the right strings to dance the high wire between art and entertainment.

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Brian D. Johnson

goes way beyond the premise, tapping the ingenuity all the way to the end.

Malkovich, meanwhile, plays himself in a brave send-up of a self-involved actor who is just semi-famous, and often mistaken for someone else. Observing the banality of a life caught unaware—Malkovich orbiting both men—the film serves as an absurd essay on celebrity like *The Truman Show* and *Ed TV*. But it goes further, to explore the passageway between artistic failure and success—between being a no-name puppeteer genius and being John Malkovich. Emerging a brilliant script by nookie screenwriter

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Tragedy in the fast lane

Family, friends mourn Greg Moore

Speed kills, and Greg Moore knew it. The dashing British Columbian accepted the odds—of injury, disability, even death—that were part of driving race cars for a living. He wasn't cocky about it, nor was he convinced of some innate invincibility. He was simply an optimist. In the precociously calm manner in which he approached his life, the 26-year-old from Maple Ridge weighed racing's risks against his own considerable abilities and liked his odds. His training and experience enabled him to judge the limits of his car and of himself, and he had a rare talent—some of it learned, most of it innate—that allowed him to push those limits without oversteering himself. But no driver can control everything on the track. Moore said so himself just two days before his death. "You'll never be able to make race cars completely safe," he told reporters at California Speedway prior to last week's ill-fated Marlboro 500. "Things happen at speed."

For family, friends and fans, Moore's own philosophical words will have to suffice as an answer to why he died. By late last week, track officials still weren't sure exactly what did happen at 350 km/h to cause the driver to lose control and crash horrifically into an exposed concrete barrier. Helio Castro-Neves, the driver immediately behind Moore on the 10th lap of the race, said it appeared the car simply hit a bump in the track, lifted a bit and started to spin. But that, critics charged, would not have proven fatal with better safety precautions around the track, and some drivers wondered privately why the race

was allowed to continue when it was clear Moore had been killed. Adrian Fernandez, the Mexican car who won the Marlboro race, was disconsolate. "This is a tragedy for all of us," he said, in tears. "The win doesn't mean anything."

Handsome, single and quick to smile, Moore was among the most popular drivers in one of North America's most popular series. He dominated every series from kids' go-karts on up, and at times he seemed capable of doing the same on the top-ranked CART circuit for Player's Racing. At 26, after setting the record for most victories in a single season on the second-tier Indy Lights series, Moore was promoted to fill the Player's seat left vacant when Jacques Villeneuve signed to



Celebrating last year's win at the U.S. 500. 'Things happen'.

drive in Formula One. In 1997, at 22, Moore became the youngest driver ever to win a CART race, and for stretches of the past two seasons, he led the overall points race. On both occasions, he eventually fell back by year's end, but that, experts say, was due to the fallings of the car, not of its driver.

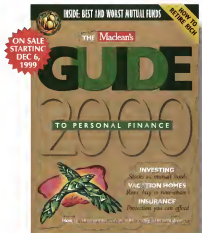
His death anguished many in the tight community of drivers. David Engstrom, a racing instructor and former Player's teammate of Moore's, said gravel spillovers and tire barriers used at many other tracks might have slowed Moore's spin through the infield and cushioned his crash against the exposed concrete wall. "Hopefully," Engstrom said, "this will make a lot of people sit down and take another look at how to make these things safer." There was sadness, too, particularly at a private funeral in Vancouver attended by many in the racing world, including Canadian icon Phil Tracy, Derrick Carpenter and Villeneuve, who flew from Europe when he heard the news. "Everyone knew he was a ball of a race car driver," fellow driver Jeremy Warr said the 1200 who attended the service, "but he was 10 times the human being."

Moore always marvelled at his own good fortune, to be paid so well for something he loved to do, and he was a champion autograph-signer for kids and fans alike. As a tribute to Moore's upbeat attitude, his father, Bob, said at a public memorial in Maple Ridge that gave the chance, his son would tell mourners to "upturn up and have some fun. Remember me as I was, a regular guy who had a great job." That modesty was the quality fans and friends cited most often in a soon planned to biography left in the memorial. So it was fitting that, while he made his name as a gear driver, Greg Moore will be remembered for being a great guy.

Janet Deacon



Tracy (left) and Villeneuve at the funeral: a regular guy who had a great job.



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Allan Fotheringham

Beware Mikey's Ontario

The state is a wonderful thing. The state is all powerful. The state, as the old saying goes, can pass any law except to order a man to have a baby. (Hello there, Jean Drapeau.)

Being all-powerful, the state can do some absolutely silly things. And so it is with the government of Ontario, which, being run by a silly man, passes absolutely stupid laws as if they could be enforced.

The stupid government of Ontario, run by men who are essentially stupid, got elected first time around by boosting up on welfare money. Taking a leaf from Ronald Reagan—who

presented off the top of his head an imaginary "welfare queen" who supposedly arrived every Wednesday afternoon in a white Cadillac convertible to collect her cheque from the government—the brain government of Ontario has decided to ensure its popularity by boosting up on the biggest threat to public safety, the people who impend the safety of the populace.

These dangerous brigands, of course, are the squaggle lads and parkbanders. One Jan Haherty, the pompous twit who is the province's attorney general, thundered in the cavernous confines of Queen's Park where all the pompous twits gather that "people have a right to go about their business and not be intimidated or endangered by behaviour on the street."

Thus the "safe streets" bill—while obviously destined to be smacked down on court the first time it is applied—thus makes such Ontario the only province in the land that specifically tries to outlaw the grabby squaggle lads and the parkbanders who populate the obscenely rich Bay Street quarters where the stockholders roam.

Now, there was a time when the fragile Canadian construct had a linchpin at the centre. The two dominant and most-populated provinces—Upper Canada and Lower Canada—were led by two guys named John Robarts and Jean Lesage.

They tried, despite the obvious differences over the Two Solitudes—two scepticisms fighting within the same bottle, as Lord Durham described it—to act like mature men concerned with holding the country together.

After leaving office, Robarts, depressed by several strokes that weakened his vigorous lifestyle, blew his head off in his shower—the same method chosen by Henrykowiak who could not abide what age and health had done to him.

Lesage declared the Québécois "crazy in our own house," yet René Lévesque belied his caution to launch the separatist movement.

Ontario now contains one-third of the Canadian population. The province contributes one-third of Parliament's MPPs and so, since all but two are Liberal, craves that Jean Chrétien's Guts—without any visible opposition—set strict rules for a third term and will live forever.

Ontario's entire economy is based on the fruits of the Canada-U.S. Auto Pact—which essentially discriminates against some Japanese and European imports—and makes Windsor and the Toronto burbs of Oakville and Oshawa rich with easy deals with Ford and General Motors and DaimlerChrysler.

And it is not exactly a secret that the Mikey Harris government floats along on a sea of corporate donations for its election cash funds.

Robert MacDonnell, of Toronto's York University, has proposed research for the Centre for Social Justice. He found—quite surprise—chat the business community makes up some 95 per cent of the museum contributions to Mikey's ruling Tories.

He says, in two years, each little gift to \$380,531 from Canadian Highway International, \$335,839 to \$312,828 (where do they get these strings, odd figures?) from Ramco-Timberlake-Munk.

Premier Mikey, the former golf pro and do-nothing, never has said a word about Québec separatism, or the three separatists. Lined up in an ivory alongside his vacant seat, such as Alberto Peter Laughand, Saskatchewan's Tommy Douglas—*even Lévesque*—appear as giants on the national scene.

In Ontario? The "safe streets" bill would surprise anyone for its attempt to shut down a condom, or a hypodermic needle, or even broken glass, in a public place.

"What going to enforce it?" It's about the same as the legislation, a century ago, that ruled spitting on the street was a criminal offence. Alan Benswag, the esteemed lawyer for the Canadian Civil Liberties Association, rightly says the alleged legislation is a joke and courts would render it laughable.

But that's Mikey's Ontario, where anyone is Rancid bothered by a bigger can buy any legislation that is up for auction.

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